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EU Module 1 eCTD Specification

Version 2.4 – Draft

July 2015

Comment [HHMG1]: The version number will become 3.0 once finalised.

17 **Document Control**

18 **Change Record**

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Reviewers

Version	Name	Organisation
0.1-0.3	EU Regulators	EU Regulatory Authorities, EMEA
0.4	Interested parties	
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Glossary of Terms

Term	Definition
Applicant	A pharmaceutical company or its agent that is submitting information in support of an application .
Applicant's Information	Regulatory information submitted by an applicant for, or to maintain, a marketing authorisation that falls within the scope of this guidance document.
eCTD Application	A collection of electronic documents compiled by a pharmaceutical company or its agent in compliance with European legislation and guidelines in order to seek a marketing authorisation or any amendments thereof. An eCTD application may comprise a number of regulatory activities . In the EU an eCTD application may comprise several dosage forms and strengths, all under one invented product name. This is understood to be equivalent to a Global Marketing Authorisation according to Art. 6 para 2 Dir. 2001/83/EC as amended. Some review tools describe such a collection as a application (a term which will not be used in this document).
Procedure	A Community registration procedure for the authorisation of medicinal products in the European Community. There are 4 types of procedure that operate within the EC – Centralised, Decentralised, Mutual Recognition and National.
Regulatory Activity	A collection of sequences covering the start to the end of a specific business process, e.g. a MA application or Type II variation
Sequence	A single set of information and / or electronic documents submitted at one particular time by the applicant as a part of, or the complete, Application . Any collection of content assembled in accordance with the eCTD specification (ICH and EU) will be described using metadata as defined by the EU envelope.
Submission Type	The submission type describes the regulatory activity to which the content will be submitted.
Submission Unit	The submission unit element of the envelope metadata set describes the content at a lower level (a "sub-activity") which is submitted in relation to a defined regulatory activity such as the initial submission, the applicant response to validation issues or list of questions or any other additional information.

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73 Introduction

74 This document specifies Module 1 of the electronic Common Technical Document (eCTD) for the
75 European Union ("EU").

76
77 This document should be read together with the ICH eCTD Specification to prepare a valid eCTD
78 submission in the EU. The latest version of the ICH eCTD Specification can be found at:
79 <http://estri.ich.org/eCTD>.

80

81 EU Module 1: Regional Information

82 The ICH Common Technical Document ("CTD") specifies that Module 1 should contain region-specific
83 administrative and product information. The content and numbering of Module 1 for the EU is
84 specified in the latest version of the *Notice to Applicants* that can be found at:
85 http://ec.europa.eu/health/documents/eudralex/vol-2/index_en.htm

86

87 The following items listed in the Notice to Applicants should be included for an initial submission:

- 88 – a cover letter,
- 89 – a comprehensive table of contents¹,
- 90 – an application form,
- 91 – product information documents,
- 92 – information on the experts,
- 93 – specific requirements for different types of applications (if required),
- 94 – an environmental risk assessment,
- 95 – information relating to orphan market exclusivity (if required),
- 96 – information relating to pharmacovigilance,
- 97 – information relating to clinical trials (if required),
- 98 – information relating to paediatrics.

99

100 In addition, other items such as answers to regulatory questions, rationale for variations and renewal
101 documentation could also be included in Module 1.

102

103 It should be noted, that for subsequent submissions in the lifecycle of a medicinal product, e.g. for a
104 variation, not all of the above mentioned types of document need to be included in Module 1. Consult
105 the various legal documents for guidance on the exact documents to be submitted in such a case-

106

107 This document describes only the region-specific information that is common to all submissions in the
108 different Member States. However, at the same time the EU Module 1 Specification allows for
109 country-specific information to be included in Module 1, if required. Country-specific information could
110 relate to the details of the business process applied (e.g. specifying the number and names of those
111 parts for which a paper copy is still requested) and local preferences for file formats.

112

113 The acronym 'EMA' will remain in use in the Product Numbers, however it will be changed to EMA in
114 the various technical texts.

115 Regional File Formats

116 *Module 1*

117 The file formats that can be included in Module 1 are given in [Table 1](#). In addition to the common
118 format PDF, as defined by the ICH eCTD Specification Document, XML and image formats are also
119 accepted on an ad hoc basis. Note that all PDF files included in an eCTD (irrespective of the module)
120 should be v1.4, v1.5, v1.6 or v1.7 (see ICH Q&A for further detail re PDF version acceptability),
121 except where there is an agency-specific requirement for a later version (e.g. for an application form).
122 Although the use of the file formats defined in [Table 1](#) are mandatory, regulatory authorities and
123 applicants could agree on the use of other formats for Module 1 content provided outside of the eCTD

¹ TOC not required for eCTD as the XML backbone acts as a table of contents

124 in the working-documents folder. For example, proprietary format MS Word is requested by some
 125 agencies for Product Information documents in Section 1.3. These documents, if requested, should
 126 not be referenced in the eCTD backbone, and should normally be provided in addition to the PDF
 127 versions (Note: Track changed Product Information provided in Word format is not required to be
 128 provided in PDF format within the eCTD, An exception to this rule is in the provision of either product
 129 labelling or risk management plan documentation in the Centralised Procedure, where the tracked
 130 changes version of the document in PDF format should be placed inside the eCTD, alongside the
 131 clean, non-tracked version.). Guidance should be referred to regarding the provision of MS Word and
 132 other requested documents (e.g. the Harmonised Technical Guidance for eCTD Submissions in the
 133 EU).

134 Table 1 Acceptable file formats for Module 1

Document	File Format	Remark
Cover letter	XML*, PDF	PDF preferably generated from electronic source.
Administrative forms: <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 XML*, PDF XML*, PDF	Documents should be generated from electronic source documents, any signature may be embedded as a graphic file in the PDF text if desired, although this is not always necessary as the hard paper copy, if required by the receiving agency, contains the legally binding signature. The use of eAF is mandatory for Centralised Procedure applications (MAA, variation, renewal) from 1 July 2015 and for MRP/DCP/National from 1 January 2016. After these dates the paper forms will no longer be accepted.
Product Information: <ul style="list-style-type: none"> • Product information text** • Packaging mock-ups • Reference to specimens 	XML*,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.
Other	XML*, PDF	PDF preferably generated from electronic source.

135
 136 * =XML format could replace PDF format whenever a structured EU exchange standard exists for the
 137 content in the specific CTD location

138 ** = SmPC, Package Leaflet and labelling

139

140 **Modules 2 to 5**

141 No additional file formats are defined for Modules 2 to 5 other than those mentioned in the ICH eCTD
 142 Specification Document.

143

144 **Use of Electronic Signatures**

145 Currently, the use of digital signatures for electronic submissions within the EU is not fully supported.
 146 Some agencies continue to request wet signed documents and others will accept the log-in
 147 credentials for portals as a sufficient authentication. Please refer to the Harmonised Technical
 148 Guidance for eCTD Submissions in the EU for information on the use of electronic signatures.

149

150

151 Handling of Empty or Missing eCTD Sections

152 For new applications (including generic applications), detailed statements justifying the absence of
153 data or specific CTD sections should be provided in the relevant Quality Overall Summary and/or
154 Non-Clinical/Clinical Overviews (Module 2.3, 2.4, 2.5). Note that placeholder documents highlighting
155 'no relevant content' should not be placed in the eCTD structure, as these would create a document
156 lifecycle for non-existent documents, and unnecessary complication and maintenance of the eCTD.

157
158 For a generic application, there is no need to provide a justification for content that is typically absent.

159
160 The EU Module 1 is provided with a standard style-sheet that can be used to view the content. Note
161 that the style-sheet has been designed to display the complete Module 1 table of contents (i.e. all the
162 sections), irrespective of whether files are actually present in those sections or not.

163

164 Updating backbone attributes/metadata

165 It is not possible to update XML backbone attributes such as 'manufacturer' during the eCTD lifecycle,
166 nor is it necessary to attempt workarounds such as deleting existing documents and resubmitting
167 them with new attributes. The recommendation is to retain the obsolete entry and to rely on the
168 document content to explain the current details. The sole exception to this rule is the EU envelope
169 "submission type" attribute, which can be updated to support a mid-lifecycle change in submission
170 type from one variation type to another (under the variation regulation).

171

172 Whilst the need for a change to the set of EU Module 1 XML attributes/metadata (this covers country,
173 language and product information type) in the middle of the procedure is deemed to be very rare, it is
174 recommended to contact the agency whether such change could be done during the procedure, along
175 with other changes, or as part of an eCTD "reformat" submission.

176

177 General Architecture of Module 1

178 The EU Module 1 architecture is similar to that of Modules 2 to 5 of the eCTD, comprising a directory
179 structure and a backbone with leaves. The backbone must be a valid XML document according to the
180 EU Regional Document Type Definition (DTD). The backbone instance (the "eu-regional.xml" file)
181 contains meta-data for the leaves, including pointers to the files in the directory structure. In addition,
182 the EU Regional DTD defines meta-data at the submission level in the form of an envelope. The root
183 element is "eu-backbone" and contains two elements: "eu-envelope" and "m1-eu".

184

185 The EU Regional DTD is modularised, i.e. the envelope and leaves are referenced from the main part
186 of the DTD as external entities called respectively "eu-envelope.mod" and "eu-leaf.mod". The
187 EU "leaf" is identical to the leaf element described in the ICH eCTD DTD; reference is made to
188 Table 6-8 of the ICH eCTD Specification. A full description of the EU Regional DTD can be found in
189 [Appendix 3](#) of this specification.

190

191 Examples of XML coding for a simple new application, supplemental information and a submission for
192 a National or Mutual Recognition Procedure are provided as an annex to this specification. Examples
193 of XML coding that support the new variation regulation are provided as well.

194

195 Files can be referred to across modules (e.g. from Module 1 to Module 2) or across sequences within
196 the same eCTD application; note however that it is not possible to refer to files in sequences in other
197 eCTD applications. When referring to files across modules or across sequences, the reference must
198 always be relative, starting from the location of the XML file. For instance, a reference from within
199 Module 1 of Sequence 0003 (e.g. 0003/m1/eu/eu-regional.xml) to a file located in Module 2 of
200 Sequence 0000 (e.g. file "introduction.pdf" in folder 0000/m2/22-intro), would be encoded in the EU
201 Module 1 as "../..../0000/m2/22-intro/introduction.pdf". (This example is not business-specific – it
202 merely serves to demonstrate the principle).

203 **Envelope**

204 The “**eu-envelope**” element is designed to be used for all types of submissions (MAAs, variations,
205 renewals, etc.) for a given medicinal product and will mainly be used for the first simple processing at
206 the agency level. The envelope provides meta-data at the eCTD application and sequence level. A
207 description of each “envelope” element is provided in [Appendix 1](#) of this specification.
208

209 For Centralised Procedure submissions, the “**eu-envelope**” element should contain a single
210 “**envelope**” element with the country attribute value set to ‘EU-EMA’. For all other procedures, the
211 “**eu-envelope**” element should contain a separate “**envelope**” element for each Member State
212 involved in the procedure that is going to receive that particular sequence, and each envelope country
213 attribute should be set to the country value of the receiving Member State. Note that the value
214 ‘common’ cannot be used in the envelope.
215

216 The envelope element submission ‘mode’ should only be used in variation, extension and workshare
217 regulatory activities, and the value can be set to: ‘single’, ‘grouping’ or ‘worksharing’. An additional
218 high-level submission number should also be provided in the envelope under the following
219 circumstances:
220

- 221 • For worksharing submissions including PSUSA and referrals
222 Here, the submission ‘mode’ value will be ‘worksharing’ and the high-level number is a
223 worksharing number, the PSUSA number or referral number;
224
- 225 • For submissions of grouped Type 1A variations that affect multiple marketing authorisations
226 Here, the submission ‘mode’ will be ‘grouping’ and the high-level number is group
227 number/report’ number. Please refer to the annex and associated guidance for further details
228 of this high-level number. Examples of ‘single’, ‘grouping’ and ‘worksharing’ submissions are
229 provided in the annex to this specification.
230

231 Such a high-level number, if appropriate, should be provided in addition to the usual product-specific
232 procedure tracking numbers. If the high-level number is required but is not known (e.g. for the first
233 submission of the procedure), this element should be populated with the value ‘to be advised’. The
234 relevant number will usually be provided by or obtained from the appropriate tracking system or
235 regulatory agency. In the case of Centralised Procedure this number is always available on the
236 Eligibility Confirmation Letter as ‘Product Reference’. E.g. if the Eligibility Confirmation Letter indicates
237 Product number H0002227 please eliminate first digit (0) from H0002227 to reflect H002227 in the
238 envelope. The use of Product Number H/C/xxxxxx is applicable after the Initial MAA has been
239 submitted to the EMA.
240

241 In the case of Centralised Procedure, it is strongly recommended that when applying for a variation
242 and the procedure number has not yet been allocated, then the term ‘to be advised’ should be used.
243 If the content of a sequence pertains to more than one submission type (e.g. parallel variations) the
244 highest variation type should be selected as submission type. In this case there will be more than one
245 related sequence. The value of submission unit will be dictated by the content, e.g. “response”.
246

247 For submissions to EDQM, the agency name EU-EDQM and the submission type ‘CEP application’
248 need to be selected. The submission unit should be used as appropriate.
249
250

251 **m-1-eu**

252 The “**m1-eu**” element of the EU regional DTD is based on the same conceptual approach as the
253 common part of the ICH eCTD DTD. It provides an XML catalogue with meta-data at the leaf level
254 including pointers to the location of files in a directory structure. As for the ICH eCTD DTD,
255 the “**m1-eu**” element maps to the directory structure. (There may at times be what is seen to be an
256 apparently ‘redundant’ directory structure, but this is necessary in order to be able to use the same file
257 / directory structure for all procedures.) Furthermore, as the same structure will be used during the
258 lifecycle of the submission, the use of country directories even to place a single file in one submission
259 is justified because it could be used to house several files in a subsequent submission, and in doing

260 so the structure would not change. A tabular overview of the directory structure explaining where to
261 place country and language-specific files is provided in [Appendix 2](#) of this specification.
262

263 **Directory / File Structure**

264 The EU Module 1 Specification provides a directory and file structure that is strongly recommended:

- 265 • The same high-level directory structure is used for all 4 procedures (MR, National,
266 Decentralised and Centralised Procedures). This is possible, despite the fact that files for the
267 MR, Decentralised and National Procedures are usually country-specific, whereas files for the
268 Centralised Procedure are usually language-specific.
- 269 • Country directories are named according to [Appendix 2.1](#).
- 270 • Language directories are named according to [Appendix 2.2](#).
- 271 • The recommended directory structure for the use of country and language identifiers is
272 described in [Appendix 2](#). In general, Modules 1.0, 1.2, 1.3.2, 1.3.3, 1.3.4, 1.3.5, 'Additional
273 Data' and 'Responses' have country subdirectories. Module 1.3.1 (Product Information) has
274 both country and language subdirectories.
 - 275 ○ For the Centralised Procedure, the country subdirectory is always named either
276 "ema" or "common", irrespective of whether it contains "common" or country folders;
277 language subdirectories in Module 1.3.1 have the appropriate language identifier.
 - 278 ○ For MR, Decentralised and National Procedures:
 - 279 ▪ Documents for each country are placed in an appropriately named
280 subdirectory. The folder name "common" should only be used for documents
281 potentially applicable to all EU countries, irrespective of whether they are
282 currently involved in the procedure or not.
 - 283 ▪ In Module 1.3.1, every document should be placed in an appropriately named
284 language subdirectory, even if the country only has one official language.
285 Where a country has more than one official language (e.g. Belgium) separate
286 language subdirectories should be used for each set of documents in a
287 different language.
 - 288 ▪ Should a country have documents in more than one language in a Module
289 other than 1.3.1, then it is recommended to use the VAR (variable) part of the
290 filename to identify the language of the document.

292 **Node Extensions**

293 Node extensions are a way of providing extra organisational information to the eCTD. The node
294 extension should be visualised as an extra heading in the CTD structure and should be displayed as
295 such when the XML backbone is viewed.

296
297 However, the use of node extensions should be limited to those areas where it is critical.
298 Consideration should be given regarding the impact of the view for the reviewer since the inconsistent
299 use of node extensions can lead to unanticipated effects in the cumulative view of a submission.

300
301 The following rules govern the use of node extensions in the EU:

- 302 • Node extensions must not be used where ICH-specified sub-headings already exist (e.g.
303 indication, manufacturer, drug substance, drug product are all-ICH specified node
304 extensions).
- 305 • Node extensions must only be used at the lowest level of the eCTD structure (e.g. a node
306 extension can be used at the level 5.3.5.1 but must not be used at the level 5.3).
- 307 • Node extensions are mainly to be used to group together documents made up of multiple leaf
308 elements (e.g. a clinical study made up of separate files for the synopsis, main body and
309 individual appendices could be grouped together under a node extension with the Study
310 Identifier as its Title attribute).
- 311 • Node extensions must be maintained over the entire life of the eCTD lifecycle (e.g. if a node
312 extension is used in Sequence 0000 to group files for a study report in Module 5.3.5.1, then
313 any files submitted in a later sequence must also be placed under a node extension, even if
314 only one file is submitted).

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- Node extensions may be nested as this is allowed by the eCTD DTD. However, as noted in Bullet 2, the first node extension must be at the lowest level in the eCTD structure (e.g. in Module 5.3.7 a node extension may be added to group together files with the Study Identifier as Title attribute). Further node extensions may be added as children of the Study Identifier node, separating CRFs from individual patient listings.
 - The content associated with a node extension can be placed in a separate sub folder in the submission; this is recommended for studies in Module 5 where study reports are provided as multiple files. However, there is no specific requirement for an additional subfolder. For example, if node extensions are used to further define 'm1-responses', additional folders under 'm1/eu/responses/cc' are not recommended. Instead, for navigational support the variable part of the file name can be used as outlined in the next section.

326 ***File Naming Convention***

327 File names in Module 1 follow one of two conventions.

328

329 Country-specific items in sections 1.0; 1.2; 1.3; *m1-responses* and *m1-additional-data* have the general structure CC-FIXED-VAR.EXT, where CC is a country code used in some CTD modules, FIXED is a defined component of the filename based on the CTD section and VAR is an additional optional variable component. EXT represents the file extension. Components are separated by a hyphen (except the dot for the file extension). No spaces should be used within each component but hyphens can be used in the variable part to separate several words.

335

336 Fixed components are highly recommended. 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 with the option of hyphens for separators and should be kept as brief and descriptive as possible. File extensions in line with this specification should be applied as applicable.

340

341 The first component in a file name should be the country code, as per [Appendix 2.1](#), except when the document is valid for all countries in all procedures, as per [Appendix 2](#). The second component should be the document type code, as per [Appendix 2](#) and [2.3](#). The third component if necessary should be the variable component. In cases where differentiation is needed (e.g. between 1.5mg and 15mg) the word 'point' written in full (i.e. '1point5mg') or a hyphen can be used (i.e. '1-5mg').

346

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

350

351 Examples:

352 fr-cover.pdf

353 be-form.xml

354 it-form-annex1.pdf

355 pt-form-proofpayment.pdf

356 uk-outer-tablet10mg.pdf

357 ema-combined-tablet1-5mg.pdf

358 ema-combined-tablet10mgannotated.pdf

359 nongmo.pdf

360

361 In m1-responses/cc, the recommendation is to use cc-responses-<regulatory activity type identifier>-<timeline identifier>-<content identifier>.pdf, using the -var component of the filename to define the content. It is recommended to use the variable component of the filename and the leaf title, to present the information clearly to the assessor.

365

366 Examples:

367

368 common-responses-maa-d106-clin.pdf Leaf title: Day 106 Clinical Responses, MAA

369 common-responses-var05-d59-qual.pdf Leaf title: Day 59 Quality Responses, Var 05

370

371

372 Non-country specific items in Sections 1.4; 1.5; 1.6; 1.7; 1.8; 1.9 and 1.10 have fixed file names, as
373 defined in [Appendix 2](#).

374 **Folder and File Name Path Length**

375 The overall folder and file name path length starting from the sequence number should not exceed
376 180 characters, for any file in any module. This is an EU regional requirement, and it is acknowledged
377 that this is less than the ICH agreed overall path length.
378

379 **Business Protocol**

380 It is clear that the detailed business process between industry and a regulatory agency in the EU
381 cannot be completely harmonised due to the differences in organisation and processes. The exact
382 description has to be provided by the EMA, EDQM or the individual Member States. However, a few
383 common steps can be identified and will be detailed in the Harmonised Technical Guidance for eCTD
384 Submissions in the EU. The EMA, EDQM and most national agencies are unable to provide positive
385 feedback of technically valid submissions. However, if there is any problem experienced during the
386 upload of the sequence, agencies will promptly inform the applicants. Please note that the EMA
387 provides automated feedback (acknowledgement) of technical validation for submissions received via
388 their [eSubmission Gateway](#) and Web Client.
389

390 **Universal Unique Identifier**

391 In the EU, although the eCTD envelope contains several pieces of information about the eCTD
392 application that the sequence belongs to, such as the procedure number and the trade name, there
393 have been instances when an eCTD sequence has been loaded into the wrong application by the
394 receiving agency. For this reason, all eCTD sequences built in accordance with this revised
395 specification must contain a universal unique identifier (UUID), linking the sequence to the eCTD
396 application to which it belongs.
397

398 The UUID will be built based on ISO/IEC 11578:1996 and ITU-T Rec X.667 | ISO/IEC 9834-8:2005. It
399 is a hexadecimal number in the form of xxxxxxxx-xxxx-Axxx-yxxx-xxxxxxxxxxxx, showing 32 digits
400 and 4 hyphens. The 'x' will be replaced by a number or a letter, 'A' will be replaced by a capital
401 character and 'y' will be replaced by a lower case. It is recommended to use randomly generated
402 sections (version 4 of UUID types). Such UUID is represented or example as: 25635f23-a3a4-C4e0-
403 b994-99c5f074960f.
404

405 This structure guarantees uniqueness across applicants and application without further control,
406 accepting a risk of duplication close to zero. The UUID will be generated when creating the first
407 sequence built using this version of the specification, and will be provided in the eCTD envelope. All
408 subsequent sequences for that same application will contain the same UUID. In this way, sequences
409 can be allocated automatically to the correct eCTD application by the receiving agency. The UUID will
410 be transferred to a new MAH and will remain the same also in cases the procedure number changes
411 due to an RMS change. Any independent application with its own life cycle should have its own UUID,
412 e.g. CEP applications or referrals or PIP applications. Instead, redacted clinical study reports or post
413 authorisation measures will relate to an existing application of which the UUID need to be used.
414

415 **Change Control**

416 The EU Module 1 specification is likely to change with time. Factors that could affect the content of
417 the specification include, but are not limited to:

- 418 • Change in the content of the Module 1 for the CTD, either through the amendment of
419 information, at the same level of detail, or by provision of more detailed definition of content
420 and structure
- 421 • Change to the regional requirements for applications that are outside the scope of the CTD
- 422 • Update of standards that are already in use within the eCTD

- 423
- Identification of new standards that provide additional value for the creation and/or usage of the eCTD
- 424
- Identification of new functional requirements
- 425
- Experience of use of the eCTD by all parties, in particular Module 1.
- 426
- 427
- 428 Details of the change control process and a current Electronic Submission Change Request/Q&A
- 429 Form are available on the EU eSubmission website.
- 430

431 **Appendix 1: The EU Module 1 XML Submission**

432

433 The EU Module 1 XML Submission contains an element for each Table of Contents entry of the Notice to Applicants Module 1. The following sections
 434 describe information that is captured within the Module 1 XML submission in an eCTD, but which is not captured within the Notice to Applicants Table of
 435 Contents for Module 1.

436 **Appendix 1.1: Envelope Element Description**

437

438 The “**eu-envelope**” element is the root element that defines meta-data of the submission. This element may contain several envelope entries, each related to
 439 a specific country.

440

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
eu-envelope		Root element that provides meta-data for the submission. This element may contain several envelopes, which are country specific.	N/A	Mandatory	Unique
envelope		Parent element for the submission meta-data. This element must be country-specific or in the case of the Centralised Procedure, 'ema' and in the case of CEP applications 'edqm'.	N/A	Mandatory	Repeatable
	country	The country to which the envelope applies (or 'ema' resp. edqm).	be	Mandatory	Unique
identifier		A UUID as specified by ISO/IEC 11578:1996 and ITU-T Rec X.667 ISO/IEC 9834-8:2005. The same UUID will be used for all sequences of an eCTD application	25635f23-a3a4-C4e0-b994-99c5f074960f 596	Mandatory	Unique
submission		Provides administrative information associated with the submission.	N/A	Mandatory	Unique

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
	type	<p>The type of regulatory activity to which the content will be submitted.. The following are the valid values:</p> <ul style="list-style-type: none"> ▪ maa = Marketing Authorisation Application ▪ var-type1a = Variation Type IA ▪ var-type1ain = Variation Type IA_{IN} ▪ var-type1b = Variation Type IB ▪ var-type2 = Variation Type II ▪ var-nat = National variation (e.g. national variation to apply for a pack size that is already registered within an existing MRP/DCP authorisation) ▪ extension = Extension ▪ psur = Periodic Safety Update Report (PSUR) which should only be used for PSURs outside of the PSUSA ▪ psusa = PSUR single assessment procedure ▪ rmp = Risk Management Plan (outside any procedure) ▪ renewal = Renewal (yearly or 5-yearly) ▪ pam-sob = specific obligation related to a post-authorisation measure ▪ pam-anx = annex II condition related to a post-authorisation measure ▪ pam-mea = additional pharmacovigilance activity in the risk-management plan related to a post-authorisation measures (RMP) (e.g. interim results of imposed/non-imposed interventional/non-interventional clinical or nonclinical studies) ▪ pam-leg = legally binding measure related to a post-authorisation measures ▪ pam-sda = cumulative review following a request originating from a PSUR or a signal evaluation related to a post-authorisation measure ▪ pam-cada = Corrective Action/Preventive Action related to a post-authorisation measure ▪ pam-p45 = paediatric submissions related to a post-authorisation measure ▪ pam-p46 = paediatric submissions related to a post-authorisation measure ▪ pam-paes = Submission of a post authorisation efficacy study ▪ pam-rec = recommendation related to a post-authorisation measures e.g. quality improvement related to a post-authorisation measure ▪ pass107n = Submission of a post authorisation safety study protocol (according article 107n) ▪ pass107q = Submission of a post authorisation safety study report (according article 107q) 	var-type2	Mandatory	Unique

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
		<ul style="list-style-type: none"> ▪ asmf = Active Substance Master File ▪ pmf = Plasma Master File ▪ referral-20 = Referral under Article 20 ▪ referral-294 = Referral under Article 29(4) ▪ referral-29p = Referral under Article 29 paediatric ▪ referral-30 = Referral under Article 30 ▪ referral-31 = Referral under Article 31 ▪ referral-35 = Referral under Article 35 ▪ referral-53 = Referral under Article 53 ▪ referral-107i = Referral under Article 107i ▪ referral-16c1c = Referral under Article 16c (1c) ▪ referral-16c4 = Referral under Article 16c(4) ▪ annual-reassessment = Annual Reassessment ▪ usr = Urgent Safety Restriction ▪ clin-data-pub-rp = Clinical data for publication – Redacted Proposal ▪ clin-data-pub-fv = Clinical data for publication – Final Version ▪ paed-7-8-30 = Paediatric submission related to a paediatric investigational plan according to article 7, 8 or 30 of the Regulation ▪ paed-29 = Paediatric submission post approval once a paediatric investigational plan has been performed ▪ paed-45= Paediatric submission according to article 45 of the Regulation ▪ paed-46= Paediatric submission according to article 46 of the Regulation ▪ article-58 = Article 58 (to be used for an initial application) ▪ notification-61-3 = Notification 61(3) ▪ transfer-ma = Transfer of a marketing authorisation ▪ lifting-suspension = Lifting of a suspension ▪ withdrawal = Withdrawal of a marketing authorisation in regard to a strength or form or entirely. This submission type shall not be used to withdraw a regulatory activity. ▪ cep = Submission that applies to an application on a Certificate of suitability CEP application (EDQM only). ▪ none = In the exceptional case of reformatting the application no regulatory activity is allowed. Therefore, 'none' must be stated. The submission application unit will identify the sub-activity related to the product. In the submission description some information can be provided to e.g. highlight specific modules being reformatted . <p>N.B. Officially, Roman numerals are used for variations, e.g. Type IA, Type II – the elements must remain Arabic, however.</p>			

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
	mode	<p>The high-level handling of the information submitted as part of variation(s) and extension applications. The mode should only be used in variation or line extension regulatory activities and must be included in every sequence of that activity. The following are the valid values:</p> <ul style="list-style-type: none"> ▪ <code>single</code> = a single regulatory activity (e.g. a Type II variation) ▪ <code>grouping</code> = a grouped activity (e.g. several variations grouped into a single submission, or a report of type IA variations applicable to one or more marketing authorisations) ▪ <code>worksharing</code> = an activity subject to a worksharing agreement (e.g. a Type II variation, referral procedures or a PSUSA applicable to more than one marketing authorisation) <p>This information should be identical with the information provided/ticked in the application form.</p>	Single	Optional <i>(note that this element must be populated for sequences in variation and line extension activities)</i>	Unique
	number	<p>This is the high-level submission number, either a 'worksharing' number, or the high-level submission number to be used when grouping Type IA variations for multiple marketing authorisations. It can also be the PSUSA number or the Referral number. (Note that for submissions affecting multiple MAs, the 'xxxx' used in the submission number is a permanent placeholder, as a single product number cannot be provided).</p> <p>If the Applicant did not obtain the sequential number from the relevant Authorities in advance of their application this field should be populated as "xxxx" as well.</p> <p>For centrally authorised products and Referrals this number must always be obtained in advance by sending an email to PA-BUS@ema.europa.eu.</p> <p>The PSUSA number can be found from the EURD list</p>	<p>For worksharing: EMEA/H/xxxx/WS/001</p> <p>For grouped IAs: EMEA/H/C/xxxx/IG/xxxx</p> <p>For PSUSA PSUSA/00xxxxx/201xxx</p> <p>For Referral: EMEA/H/A-xx/xxxx</p>	Optional	Unique
	procedure tracking	Provides administrative information associated with the application.	N/A	Mandatory	Unique

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
	number	<p>This is any number, used by an agency or the applicant to track the submission, in any procedure, in relation to a particular product. This could be one or more of the following:</p> <ul style="list-style-type: none"> • an MRP/DCP number (e.g. DE/H/0126/001/MR), • a national procedure number (e.g. 2131577), • the EMA application number (e.g. EMEA/H/C/000123 or EMEA/H/C/000123/II/tba (to be advised), or in case of sequences after 'initial', (e.g. 'response' or 'supplemental-info'), EMEA/H/C/000123/II/14), • an authorisation or licence number, (e.g. EU/1/00/44/0003 - 0004), • any other number used by an agency to track a submission, (e.g. PL01234/0003-0004) • a number used by the applicant to manage the submission within their company (e.g. Pharmacompany123) <p>There must be at least one tracking number identified from the regulators and, in addition, the applicant can choose to include an internal tracking number.</p> <p>In the case of Centralised Procedure, it is strongly recommended that when applying for a variation and the procedure number has not yet been allocated , then the term 'to be advised' should be used (no internal number from the applicant should be used).</p> <p>It is suggested that if the procedure number has not yet been allocated by the agency then the term 'to be advised' should be used. Applicants should consult national guidance for further information.</p> <p>In case of worksharing, or grouped type IA variations applying to more than one MA, a separate eCTD submission must be built for each MA covered by the variation. In the envelope of each of the eCTD submissions, the high-level submission number will be the same, but the individual tracking numbers listed here should be specific to the MA in question, e.g.:</p> <p>For worksharing:</p> <ul style="list-style-type: none"> • EMEA/H/C/000123/WS005/ <p>In case of PSUSA</p> <ul style="list-style-type: none"> • PSUSA/0000000X/123456 <p>In case of Referral procedure</p> <ul style="list-style-type: none"> • EMEA/H/A-xx/1234 <p>For grouped type 1A variations across multiple MAs:</p> <ul style="list-style-type: none"> • EMEA/H/C/000123/IG003/ <p>Please ensure that these WS/IG numbers are always mentioned in the case of supplemental information or corrigendum otherwise the Agency might not be able to process your submission correctly.</p>	See column left	Mandatory	Repeatable

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
submission unit		<p>Submission unit describes the content at a lower level (a "sub-activity") which is submitted in relation to a defined regulatory activity. The following are the valid values:</p> <ul style="list-style-type: none"> ▪ <code>initial</code> = Initial submission to start any regulatory activity ▪ <code>validation-response</code> = For rectifying business validation issues. ▪ <code>response</code> = submission unit that contains the response to any kind of question, validation issues out-standing information requested by the agency ▪ <code>additional-info</code> = Other additional Information (could include, for example, missing files) and should only be used, if <code>validation-response</code> or <code>response</code> is not suitable ▪ <code>closing</code> = submission unit that provides the final documents in the centralised procedure following the decision of the European Commission ▪ <code>consolidating</code> = submission unit that consolidates the application after several information in the MRP or DCP handled outside the eCTD but that need to be integrated thereafter to maintain the life cycle properly. ▪ <code>corrigendum</code> = Correction to the published annexes in the centralised procedure (usually shortly after approval) ▪ <code>reformat</code> = Intended to support the reformatting of an existing submission application from any format to eCTD, i.e. a baseline eCTD submission containing no content change and which will not be subject to review (see example below). This type will always be used together with the submission type 'none' 	response	Mandatory	Unique
applicant		The name of the company submitting the eCTD.	PharmaCompany Ltd.	Mandatory	Unique
agency		Parent element for the identification of the receiving agency.	N/A	Mandatory	Unique
	code	The identification of the receiving agency (see Appendix 2.4).	EU-EMA	Mandatory	Unique
procedure		Defines the procedure in use with the submission	N/A	Mandatory	Unique
	type	<p>The type of procedure for the submission. The following are the valid values:</p> <ul style="list-style-type: none"> ▪ <code>centralised</code> = Centralised Procedure ▪ <code>national</code> = National Procedure ▪ <code>mutual-recognition</code> = Mutual Recognition Procedure ▪ <code>decentralised</code> = Decentralised Procedure 	Centralised	Mandatory	Unique
invented-name		The name of the medicinal product.	WonderPill	Mandatory	Repeatable

Comment [KM2]: This term is changed to 'additional-info' to avoid confusing people or maintaining use as previously although the intent has changed..

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
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 non-proprietary name is also known as a generic name.	Pioglitazone hydrochloride	Optional	Repeatable
sequence		This is the sequence number 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.	0000	Mandatory	Unique
related-sequence		This is the sequence number of previous submission(s) to which this submission relates e.g. the responses to questions to a particular variation. It should never be used together with the submission unit 'initial' or 'reformat'	0001 see guidance below on use and the annex	Optional	Repeatable
submission-description		This element is used to provide a free text description of the submission. The list below provides additional examples for such a field: <ul style="list-style-type: none"> ▪ For an MAA: Original MAA Application for <Product X> / Response to D120 LOQ ▪ For a Type II variation: Please quote the scope of variation from the Application Form ▪ For a Type IB variation: Please quote the scope of variation from the Application Form ▪ For an Annual Reassessment submission: 4th AR submission for <Product X> ▪ In case of a referral related submission: Referral under Article YY ▪ Response to validation questions ▪ Providing supplementary information ▪ Dxxx translations 	Response to D120 LOQ	Mandatory	Unique

441
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443 Example of the use of the Related Sequence and the Submission Unit elements

444

445 The related sequence element is used to identify sequences belonging to the same 'regulatory activity'. A 'regulatory activity' is a logical unit of submission
 446 activity (e.g., a Type II Variation) with a defined start and end point (e.g. initial submission to final approval). In the eCTD world, this will consist of all the
 447 sequences that together make up the lifecycle of that particular 'regulatory activity'. The Submission Unit element describes the stage within the regulatory
 448 activity, such as initial, response, consolidating.

449

450 The related sequence attribute should always be left blank for new applications or new regulatory activities where the submission unit type is 'initial'. When
 451 submitting lifecycle sequences within an existing activity, the related sequence attribute should be populated with the sequence number the regulatory activity
 452 has been started with. The submission unit should be populated with the respective term describing the content of the sequence to be filed at that point in
 453 time. See below for some illustrative examples.

454

455 It is generally expected that there is usually just one related sequence, but there are occasions where more than one related sequence should be provided:
 456 e.g. there are two PAMs (sequence 0050 and sequence 0060) and a single response (sequence 0070) is produced that relates to both PAMs. If more than
 457 one different category of activities (submission Types) are referred to (as related sequence), then the "highest category" should be used in the envelope
 458 attributes. If any of the related variations were grouped, then 'grouping' should be used. For any of the submission types (regulatory activities) an initial and
 459 any of the additional submission unit types can be used, e.g 'response' in case of responses to list of questions or out-standing list of issues. The post
 460 authorisation measure may have an initial and additional-info submission unit. The submission description may describe details if this content is related to e.g.
 461 an earlier defined obligation or to which day in the procedure the response is assigned to.

462

463 Special attention should be paid to the correct use of the related sequence element when the regulatory activity is a variation that covers more than one
 464 Marketing Authorisation. An example is given in the Annex.

465

Sequence	Submission description	Submission type	Related sequence	Submission unit	Comment
0000	Original MAA application	maa	<none>	initial	This is the beginning of a new regulatory activity and so the submission unit is 'initial'. The related sequence should never be used together with the submission unit type 'initial'
0001	Day 121 Responses to questions on the original application	maa	0000	response	This is a continuation of the regulatory activity 'maa' initiated in 0000 and so the related sequence points to the beginning of that activity, The submission unit describes the actual contribution 'response' being submitted within maa regulatory activity
0002	Day 181 Responses to further questions on the original application	maa	0000	response	This is a continuation of the regulatory activity 'maa' initiated in 0000 and so the related sequence points to the beginning of that activity The submission unit describes the actual contribution 'response' being submitted within maa regulatory activity
0003	Letter of Undertaking (submission type:	maa	0000	supplemental-info	This is a continuation of the regulatory activity initiated in 0000 and so the related sequence points to the beginning of that activity. The

	supplemental information)				submission unit describes the actual contribution 'supplemental-info' being submitted within maa regulatory activity
0004	Type II variation for 'Treatment of Pain' indication	var-type2	<none>	initial	This is the beginning of a new regulatory activity 'var-type2' and so the submission unit is ,initial'.The related sequence should be left blank.
0005	Type II variation for a change in manufacturing site (Westferry)	var-type2	<none>	initial	This is the beginning of another new regulatory activity 'var-type2' and so the submission unit is ,initial'.Again, the related sequence should be left blank.
0006	Responses to questions on Type II variation for 'Treatment of Pain' indication	var-type2	0004	response	This is a continuation of the regulatory activity initiated in 0004 and so the related sequence points to the beginning of that activity . The submission unit 'response' indicates that this is a response to questions.
0007	Responses to questions on Type II variation for change in manufacturing site (Westferry)	var-type2	0005	response	As above, but this is a continuation of the regulatory activity initiated in 0005
0008	Extension to introduce a new dosage form (iv solution) that amends information provided in the original application and the manufacturing change variation	extension	<none>	initial	This is the beginning of a new regulatory activity and so the submission unit is 'initial', No related sequence is included.
0009	Updated, agreed, product information taking into account new indication ('Treatment of Pain')	var-type2	0004	response	This is the completion of the new indication ('Treatment of Pain') activity, the related sequence points to the sequence which was 'initial' for this activity, and submission unit indicates that this is a response to questions.
00010	Updated, agreed product information for the iv formulation	extension	0008	consolidating	This is the completion of the new dosage form (iv solution) extension, and so the related sequence is the sequence that started the activity. Submission unit 'consolidating' indicates that further lifecycle 'fixes' have been applied in the sequence.

466
467 For a new regulatory activity, the appropriate submission type should be used. Applicants should refer to the submission type descriptions in the EU Module 1
468 specification. For the submission unit that initiates a regulatory activity the term 'initial should always be used. For subsequent sequences within that
469 regulatory activity the respective terms should be selected from the submission unit values in the EU M1 specification. The related sequence will be
470 maintained as another way to describe relationships and will be especially meaningful in case of parallel variations.
471

472 After the Regulatory Activity has concluded a consolidation of the application may be necessary as in the late phase of the procedure direct exchange of draft
473 documents and interim communication has happened. Final decision, final assessment reports and final versions of the product information texts should be

474 submitted within a consolidating sequence.. The submission type 'corrigendum' should only be used in exceptional circumstances to correct information,
475 typically for the product information annexes to be provided in the centralised procedure.

476
477 Tables 1, 2 and 3 provide examples of this convention.

478
479 Table 1: Example of a MAA in the Centralised Procedure

Sequence number	Submission Description	Submission Type	Related Sequence	Submission Unit
0000	MAA	maa	none	initial
0001	Validation update	maa	0000	response
0002	Day 121 responses	maa	0000	response
0003	Day 181 responses	maa	0000	response
0004	Day 210 Agreed English product information	maa	0000	response
0005	Day 215 – translated product information	maa	0000	response
0006	Final translations of product information for Decision after closing the procedure	maa	0000	response
0007	Correction of errors in Danish product information after Decision	maa	0000	corrigendum

480
481

482 Table 2: Example of an initial MAA in the Decentralised Procedure

Sequence number	Submission Description	Submission Type	Related Sequence	Submission Unit
0000	MAA	maa	none	initial
0001	Validation update	maa	0000	response
0002	Day 106 responses	maa	0000	response
0003	Day 180 responses	maa	0000	response
0004	Day 210 Agreed English product information	maa	0000	response
0005	consolidation after closure of procedure	maa	0000	consolidating

483 Table 3: Example of a Variation
484

Sequence number	Submission Description	Submission Type	Related Sequence	Submission Unit
0008	Variation for new indication of COPD	var-type2	none	none
0009	Validation update	var-type2	0008	response
0010	Responses to questions	var-type2	0008	response

485 Table 4 provides details of which submission unit types should never have a related sequence and which should always have a related sequence
486
487

488 Table 4: List of Submission Unit and the Use of Related Sequence

Submission Unit	Should Never Have A Related Sequence	Should Always Have A Related Sequence
initial	Yes	
validation-response		Yes
response		Yes
additional-info		Yes
withdrawal		Yes
closing		Yes
consolidating		Yes
corrigendum		Yes
reformat	Yes	

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492 Example of the use of the submission type 'referral-31'

493

494 Referrals according to article 31 are covering in many cases applications from different procedures. So the completing of metadata seems to be difficult and
495 causes inconsistencies. The eCTD envelope will reflect the products involved. For a pharmacovigilance issue impacting multiple products the referral is run
496 as a centralised procedure. The envelope should indicate the referral procedure number as well as the MR/DC procedure number the submitted sequence
497 relates to.
498

Envelope for EMA	
UUID	25635f23-a3a4-Wce0-r994-99c5f074960f
Submission:	Type: Referral-31
Submission:	Mode: worksharing
Number	EMEA/H/A-31/9999 [This is the referral procedure number]
Procedure Tracking Number(s):	PT/H/9999/001-002 [This is the original MRP number which will serve to allocate the application correctly]
Submission unit	initial
Applicant:	Miracle Pharmaceuticals, Inc.
Agency:	EMA - European Medicines Agency (EU-EMA)
Procedure:	Centralised Procedure [As the referral procedure is centralised.]
Invented Name:	Ibuprofen referral
INN:	Ibuprofen
Sequence:	0000 [The sequence number will be the first one due to the separate referral life cycle].
Related Sequence:	
Submission Description:	Referral under Article 31

499

500 In case of only one product concerned (but authorised on the European level) the submission mode will turn to single and the submission number will not be
501 filled. The procedure type will also remain MRP and the sequence number must reflect the next free number:
502

Envelope for CZ	
UUID	q578w301-a3a4-Vce0-a004-99g5f07T960f
Submission:	Type: Referral-31
Submission:	Mode: single
Number	
Procedure Tracking Number(s):	PT/H/9999/001-002 [This is the original MRP number which will serve to allocate the application correctly. In this case no high level procedure number is needed in addition.]
Submission unit	initial
Applicant:	Miracle Pharmaceuticals, Inc.

Agency:	CZ – State Institute for Drug Control (CZ-SUKL) [Receiving Member State]
Procedure:	Mutual Recognition Procedure (MRP) [As the referral procedure remains non-centralised..]
Invented Name:	Proprietary-Wonderdrug
INN:	Ibuprofen
Sequence:	4444 [The sequence number needs to be the next available sequence number within the product life cycle].
Related Sequence:	
Submission Description:	Referral under Article 31

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Example of the use of the submission type ‘reformat’

The submission type ‘reformat’ should be used for each baseline submission. (Note: the submission type ‘supplemental-info’ should not be used for the second reformat submission.) Related sequence should not be used.

An example is given below.

Sequence number	Submission Description	Submission Type	Related Sequence	Submission Unit
0000	Baseline of Modules 4 & 5	none	None	reformat
0001	Variation for new indication of COPD	var-type2	None	initial
0002	Baseline of Module 3	none	None	reformat
0003	Extension for 8mg tablet	extension	None	initial

512
513
514

Appendix 1.2: Country-Specific Elements

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

517

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
specific		Parent element for identifying the receiving country for a document or documents.	N/A	Mandatory	Repeatable
	country	The receiving country for the document(s) (or “common”) (see Appendix 2.1 for full list of allowable values)	uk	Mandatory	Unique

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

- 520 • `m1-0-cover` (1.0 Cover Letter)
 - 521 • `m1-2-form` (1.2 Application Form)
 - 522 • `m1-3-2-mockup` (1.3.2 Mock-Up)
 - 523 • `m1-3-3-specimen` (1.3.3 Specimen)
 - 524 • `m1-3-4-consultation` (1.3.4 Consultation with Target Patient Groups)
 - 525 • `m1-3-5-approved` (1.3.5 Product Information Already Approved in the Member States)
 - 526 • `m1-responses` (Responses to Questions)
 - 527 • `m1-additional-data` (Additional Data)
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529 **Appendix 1.3: Product Information Element Description**

530 The “`m1-3-1-spc-label-pl`” corresponds to the Notice to Applicants heading 1.3.1 SPC, Labelling and Package Leaflet. This element can have multiple
 531 child “`pi-doc`” elements that allow identification of product information language, document type and applicable country as described below.

Element	Attribute	Description/Instructions	Example	Constraint	Occurrence
pi-doc		Parent element for identification of the type, language and country of one or more product information documents.	N/A	Mandatory	Repeatable
	xml:lang	The language that the product information is written in (see Appendix 2.2 for allowable values).	fr	Mandatory	Unique
	type	The type of product information document (see Appendix 2.3 for allowable values).	combined	Mandatory	Unique
	country	The receiving country for the product information (or “common”) (see Appendix 2.1 for full list of allowable values)	be	Mandatory	Unique

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534 **Appendix 2: Directory / File Structure for Module 1**

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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 EU Backbone
	File/Directory	File/Directory name from m1/eu – should be relative path from eu/m1 e.g. 12-form/fr-form.pdf. This is consistent with ICH standards. The file extension corresponds to the file type; i.e. the “pdf” extension is only illustrative.
	Comment	Comments

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Where the following conventions are used:

Codes*	Definition
CC	Country Code, also referred to as the destination code as per Appendix 2.1
LL	Local Language code as per Appendix 2.2
EXT	File extension.
PIDOC	Product Information Document identifier as per Appendix 2.3
VAR	Variable component of the filename.
DDDD	A sequence number made of 4 digits (e.g. 0000)

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* = The names of the actual files and directories used should be presented in lower case in accordance with the eCTD specification. The use of upper case for codes is for illustrative purposes only to show differentiation between the variable parts and the fixed part of the name.

1	Number	
	Title	Module 1 EU
	Element	m1-eu
	Directory	m1/eu
	Comment	Top level directory for the EU Module 1as per ICH eCTD Specification
2	Number	
	Title	
	Element	
	File	m1/eu/eu-regional.xml
	Comment	The EU Regional XML instance including the envelope information. Note that the operation attribute for the eu.regional.xml should always be set to 'new'.
3	Number	1.0
	Title	Cover Letter
	Element	m1-0-cover
	Directory	m1/eu/10-cover
	Comment	
4	Number	
	Title	
	Element	
	Directory	m1/eu/10-cover/CC
	Comment	Always use the country directory at this level for all procedures even when only one file is submitted to only one country during the lifecycle of the submission.

5	Number	
	Title	
	Element	
	File	<i>m1/eu/10-cover/CC/CC-cover-VAR.EXT</i>
	Comment	Filename for the Cover Letter composed of a fixed component "CC", a fixed component "cover" and an optional variable component if required (e.g. fr-cover-variationrationale.pdf). When only the cover letter is submitted in this directory the file name should be CC-cover.pdf. Single document correspondences e.g. Letter of Undertakings should be placed here.
6	Number	
	Title	
	Element	
	File	<i>m1/eu/10-cover/CC/CC-tracking-VAR.EXT</i>
	Comment	Note that the tracking table required with MPR/DCP submissions should be located within a 'common' directory, with the filename 'common-tracking-var.pdf' In case of submissions of other procedure types the respective country code should be used, e.g. ema-tracking-var.pdf in case of a centralised procedure or de-tracking-var.pdf in case of a national procedure with BfArM or PEI.
7	Number	1.2
	Title	Application Form
	Element	m1-2-form
	Directory	m1/eu/12-form
	Comment	The Application Form refers to any form (new applications, applications for variations or renewals).
8	Number	
	Title	
	Element	
	Directory	m1/eu/12-form/CC
	Comment	Always use the country directory at this level for all procedures even when only one file is submitted to only one country during the lifecycle of the submission.
9	Number	
	Title	
	Element	

	File	m1/eu/12-form/CC/CC-form-VAR.EXT
	Comment	<p>Filename for the Application Form composed of a fixed component “CC”, a fixed component “form” and an optional variable component to be used if required (e.g. fr-form-annex01.pdf, fr-form-proofpayment.pdf). When only the application form is submitted in this directory the file name should be CC -form.pdf. Annexes that potentially apply to all EU countries should be placed in the ‘common’ sub-directory (e.g. common-form-annex12.pdf, common-form-pheurcertificate.pdf). The variable component, if used, should be a logical name and should be added without spaces</p> <p>Supportive documents, which are not part of any M2-5 section or Response to Questions, should be placed here.</p> <p>Any updates to documents originating from M2-5 should replace the outdated version in its original location in M2-5. Supportive documents submitted as answers to questions should be placed in Module 1 Responses to Questions (see line 66-68).</p>
10	Number	1.3
	Title	Product Information
	Element	m1-3-pi
	Directory	m1/eu/13-pi
	Comment	General placeholder for Product Information
11	Number	1.3.1
	Title	SmPC, Labelling and Package Leaflet
	Element	m1-3-1-spc-label-pl
	Directory	m1/eu/13-pi/131-spclabelpl
	Comment	General placeholder for SmPC, Labelling, Package Leaflet or Combined PI
12	Number	
	Title	
	Element	
	Directory	m1/eu/13-pi/131-spclabelpl/CC
	Comment	Always use the country directory at this level for all procedures even when only one file is submitted to only one country during the lifecycle of the submission.
13	Number	
	Title	
	Element	
	Directory	m1/eu/13-pi/131-spclabelpl/CC/LL
	Comment	Always use a language directory at this level during the lifecycle of the submission. See Row 13 for an example.

14	Number	
	Title	
	Element	
	File	m1/eu/13-pi/131-splabelpl/CC/LL/CC-PIDOC-VAR.EXT
	Comment	Filename for the spc-label-pl document composed by a fixed component "CC", a fixed component "PIDOC" as per table of Appendix 2.3 and an optional variable component to be used if needed (e.g. m1/eu/13-pi/131-splabelpl/ema/de/ema-combined-tablet10mgde.pdf).
15	Number	1.3.2
	Title	Mock-up
	Element	m1-3-2-mockup
	Directory	m1/eu/13-pi/132-mockup
	Comment	
16	Number	
	Title	
	Element	
	Directory	m1/eu/13-pi/132-mockup/CC
	Comment	Always use the country directory at this level for all procedures even when only one file is submitted to only one country during the lifecycle of the submission.
17	Number	
	Title	
	Element	
	File	m1/eu/13-pi/132-mockup/CC/CC-mockup-VAR.EXT
	Comment	Filename for the mock-up document composed by a fixed component "CC", a fixed component "mockup" and an optional variable component to be used if needed. (e.g. fr-mockup-tablet10mgouter.pdf).

18	Number	1.3.3
	Title	Specimen
	Element	m1-3-3-specimen
	Directory	m1/eu/13-pi/133-specimen
	Comment	
19	Number	
	Title	
	Element	
	Directory	m1/eu/13-pi/133-specimen/CC
	Comment	Always use the country directory at this level for all procedures even when only one file is submitted to only one country during the lifecycle of the submission.
20	Number	
	Title	
	Element	
	File	m1/eu/13-pi/133-specimen/CC/CC-specimen-VAR.EXT
	Comment	Filename for the list of physical specimens provided with the submission composed by a fixed component "CC", a fixed component "specimen" and an optional variable component to be used if needed. (e.g. fr-specimen.pdf).
21	Number	1.3.4
	Title	Consultation with Target Patient Groups
	Element	m1-3-4-consultation
	Directory	m1/eu/13-pi/134-consultation
	Comment	
22	Number	
	Title	
	Element	
	Directory	m1/eu/13-pi/134-consultation/CC
	Comment	Always use the country directory at this level for all procedures even when only one file is submitted to only one country during the lifecycle of the submission.

23	Number	
	Title	
	Element	
	File	m1/eu/13-pi/134-consultation/CC/CC-consultation-VAR.EXT
	Comment	Filename for the results of assessments carried out in cooperation with target patient groups on the package leaflet, composed by a fixed component "CC", a fixed component "consultation" and an optional variable component to be used if needed. (e.g. consultation-tablet10mgpl.pdf).
24	Number	1.3.5
	Title	Product Information already approved in the Member States
	Element	m1-3-5-approved
	Directory	m1/eu/13-pi/135-approved
	Comment	
25	Number	
	Title	
	Element	
	Directory	m1/eu/13-pi/135-approved/CC
	Comment	Always use the country directory at this level for all procedures even when only one file is submitted.
26	Number	
	Title	
	Element	
	File	m1/eu/13-pi/135-approved/CC/CC-approved-VAR.EXT
	Comment	Filename for the approved Product Information document composed by a fixed component "CC", a fixed component "approved" and an optional variable component to be used if needed. The "CC" prefix should be used for the country receiving the submission, not the country where the product information is already approved (e.g. when submitting a application in France, where Product Information has been approved in Poland, the file name would be (e.g. fr-approved-poland.pdf or fr-approved-polandmanumber.pdf).
27	Number	1.3.6
	Title	Braille
	Element	m1-3-6-braille
	Directory	m1/eu/13-pi/136-braille
	Comment	

28	Number	
	Title	
	Element	
	File	m1/eu/13-pi/136-braille/braille-VAR.EXT
	Comment	Filename for the Braille information is composed by a fixed component "braille" and an optional variable component to be used if needed. (e.g. braille.pdf).
29	Number	1.4
	Title	Information about the Experts
	Element	m1-4-expert
	Directory	m1/eu/14-expert
	Comment	General placeholder for Expert Information.
30	Number	1.4.1
	Title	Quality
	Element	m1-4-1-quality
	Directory	m1/eu/14-expert/141-quality
	Comment	General placeholder for quality information.
31	Number	
	Title	
	Element	
	File	m1/eu/14-expert/141-quality/quality-VAR.EXT
	Comment	Filename for the quality expert document composed by a fixed component "quality" and an optional variable component to be used if needed. (e.g. quality.pdf).
32	Number	1.4.2
	Title	Non-Clinical
	Element	m1-4-2-non-clinical
	Directory	m1/eu/14-expert/142-nonclinical
	Comment	General placeholder for non-clinical information.

33	Number	
	Title	
	Element	
	File	m1/eu/14-expert/142-nonclinical/nonclinical- <i>VAR.EXT</i>
	Comment	Filename for the non-clinical expert document composed by a fixed component "nonclinical" and an optional variable component to be used if needed. (e.g. nonclinical.pdf).
34	Number	1.4.3
	Title	Clinical
	Element	m1-4-3-clinical
	Directory	m1/eu/14-expert/143-clinical
	Comment	General placeholder for clinical information.
35	Number	
	Title	
	Element	
	File	m1/eu/14-expert/143-clinical/clinical- <i>VAR.EXT</i>
	Comment	Filename for the clinical expert document composed by a fixed component "clinical" and an optional variable component to be used if needed. (e.g. clinical.pdf).
36	Number	1.5
	Title	Specific Requirements for Different Types of Applications
	Element	m1-5-specific
	Directory	m1/eu/15-specific
	Comment	General placeholder for Specific Information.
37	Number	1.5.1
	Title	Information for Bibliographical Applications
	Element	m1-5-1-bibliographic
	Directory	m1/eu/15-specific/151-bibliographic
	Comment	General placeholder for bibliographical applications.

38	Number	
	Title	
	Element	
	File	m1/eu/15-specific/151-bibliographic/bibliographic-VAR.EXT
	Comment	Filename for the specific bibliographic submission information composed by a fixed component "bibliographic" and an optional variable component to be used if needed. (e.g. bibliographic.pdf).
39	Number	1.5.2
	Title	Information for Generic, 'Hybrid' or Bio-similar Applications
	Element	m1-5-2-generic-hybrid-biosimilar
	Directory	m1/eu/15-specific/152-generic-hybrid-bio-similar
	Comment	General placeholder for generic, 'hybrid' or bio-similar applications.
40	Number	
	Title	
	Element	
	File	m1/eu/15-specific/152-generic-hybrid-bio-similar/generic-VAR.EXT or m1/eu/15-specific/152-generic-hybrid-bio-similar/hybrid-VAR.EXT or m1/eu/15-specific/152-generic-hybrid-bio-similar/biosimilar-VAR.EXT
	Comment	Filename for the specific generic, hybrid or bio-similar submission information composed by a fixed component "generic" or "hybrid" or "biosimilar", and an optional variable component to be used if needed (e.g. generic.pdf).
41	Number	1.5.3
	Title	(Extended) Data/Market Exclusivity
	Element	m1-5-3-data-market-exclusivity
	Directory	m1/eu/15-specific/153-data-market-exclusivity
	Comment	General placeholder for (extended) data/market exclusivity.
42	Number	
	Title	
	Element	
	File	m1/eu/15-specific/153-data-market-exclusivity/datamarketexclusivity-VAR.EXT
	Comment	Filename for the data / market exclusivity composed of a fixed component "datamarketexclusivity" and an optional variable component to be used if needed (e.g. datamarketexclusivity.pdf).

43	Number	1.5.4
	Title	Exceptional Circumstances
	Element	m1-5-4-exceptional-circumstances
	Directory	m1/eu/15-specific/154-exceptional
	Comment	General placeholder for marketing authorisation granted under exceptional circumstances.
44	Number	
	Title	
	Element	
	File	m1/eu/15-specific/154-exceptional/exceptional- <i>VAR.EXT</i>
	Comment	Filename for marketing authorisation granted under exceptional circumstances, composed of a fixed component “exceptional” and an optional variable component to be used if needed (e.g. exceptional.pdf).
45	Number	1.5.5
	Title	Conditional Marketing Authorisation
	Element	m1-5-5-conditional-ma
	Directory	m1/eu/15-specific/155-conditional-ma
	Comment	General placeholder for conditional marketing authorisation.
46	Number	
	Title	
	Element	
	File	m1/eu/15-specific/155-conditional-ma/conditionalma- <i>VAR.EXT</i>
	Comment	Filename for conditional marketing authorisation, composed of a fixed component “conditionalma” and an optional variable component to be used if needed (e.g. conditionalma.pdf).
47	Number	1.6
	Title	Environmental Risk Assessment
	Element	m1-6-environrisk
	Directory	m1/eu/16-environrisk
	Comment	General placeholder for Environmental Risk Assessment.

48	Number	1.6.1
	Title	Non-GMO
	Element	m1-6-1-non-gmo
	Directory	m1/eu/16-environrisk/161-nongmo
	Comment	General placeholder for non-GMO.
49	Number	
	Title	
	Element	
	File	m1/eu/16-environrisk/161-nongmo/nongmo- <i>VAR.EXT</i>
	Comment	Filename for the environmental risk assessment non-GMO composed by a fixed component "nongmo" and an optional variable component to be used if needed. (e.g. nongmo.pdf).
50	Number	1.6.2
	Title	GMO
	Element	m1-6-2-gmo
	Directory	m1/eu/16-environrisk/162-gmo
	Comment	General placeholder for GMO.
51	Number	
	Title	
	Element	
	File	m1/eu/16-environrisk/162-gmo/gmo- <i>VAR.EXT</i>
	Comment	Filename for the environmental risk assessment GMO-composed by a fixed component "gmo" and an optional variable component to be used if needed (e.g. gmo.pdf).
52	Number	1.7
	Title	Information relating to Orphan Market Exclusivity
	Element	m1-7-orphan
	Directory	m1/eu/17-orphan
	Comment	General placeholder for Orphan Market Exclusivity information.

53	Number	1.7.1
	Title	Similarity
	Element	m1-7-1-similarity
	Directory	m1/eu/17-orphan/171-similarity
	Comment	General placeholder for information on similarity with authorised orphan product.
54	Number	
	Title	
	Element	
	File	m1/eu/17-orphan/171-similarity/similarity-VAR.EXT
	Comment	Filename for the information on similarity composed by a fixed component "similarity" and an optional variable component to be used if needed.
55	Number	1.7.2
	Title	Market Exclusivity
	Element	m1-7-2-market-exclusivity
	Directory	m1/eu/17-orphan/172-market-exclusivity
	Comment	General placeholder for information on market exclusivity.
56	Number	
	Title	
	Element	
	File	m1/eu/17-orphan/172-market-exclusivity/marketexclusivity-VAR.EXT
	Comment	Filename for information on market exclusivity composed by a fixed component "marketexclusivity" and an optional variable component to be used if needed.
57	Number	1.8
	Title	Information relating to Pharmacovigilance
	Element	m1-8-pharmacovigilance
	Directory	m1/eu/18-pharmacovigilance
	Comment	General placeholder for information on pharmacovigilance.

58	Number	1.8.1
	Title	Pharmacovigilance System
	Element	m1-8-1-pharmacovigilance-system
	Directory	m1/eu/18-pharmacovigilance/181-phvig-system
	Comment	General placeholder for information on pharmacovigilance system.
59	Number	
	Title	
	Element	
	File	m1/eu/18-pharmacovigilance/181-phvig-system/phvigsystem-VAR.EXT
	Comment	Filename for information on pharmacovigilance system composed by a fixed component "phvigsystem" and an optional variable component to be used if needed.
60	Number	1.8.2
	Title	Risk-management System
	Element	m1-8-2-risk-management-system
	Directory	m1/eu/18-pharmacovigilance/182-riskmgt-system
	Comment	General placeholder for information on risk management system.
61	Number	
	Title	
	Element	
	File	m1/eu/18-pharmacovigilance/182-riskmgt-system/riskmgtsystem-VAR.EXT
	Comment	Filename for information on pharmacovigilance system composed by a fixed component "riskmgtsystem" and an optional variable component to be used if needed.
62	Number	1.9
	Title	Information relating to Clinical Trials
	Element	m1-9-clinical-trials
	Directory	m1/eu/19-clinical-trials
	Comment	General placeholder for information on clinical trials.

63	Number	
	Title	
	Element	
	File	m1/eu/19-clinical-trials/clinicaltrials- <i>VAR.EXT</i>
	Comment	Filename for information on clinical trials composed by a fixed component "clinicaltrials" and an optional variable component to be used if needed.
64	Number	1.10
	Title	Information relating to Paediatrics
	Element	m1-10-paediatrics
	Directory	m1/eu/110-paediatrics
	Comment	General placeholder for information on paediatrics.
65	Number	
	Title	
	Element	
	Directory	m1/eu/110-paediatrics/paediatrics- <i>VAR.EXT</i>
	Comment	Filename for information on paediatrics composed by a fixed component "paediatrics" and an optional variable component to be used if needed.
66	Number	
	Title	Responses to Questions
	Element	m1-responses
	Directory	m1/eu/responses
	Comment	
67	Number	
	Title	
	Element	
	Directory	m1/eu/responses/CC
	Comment	Always use the country directory at this level for all procedures even when only one file is submitted to only one country during the lifecycle of the submission.

68	Number	
	Title	
	Element	
	File	m1/eu/responses/CC/CC-responses- VAR.EXT
	Comment	Filename for responses to questions composed by a fixed component "CC", a fixed component "responses" and an optional variable component to be used if needed (e.g. be-responses.pdf).
69	Number	
	Title	Additional Data
	Element	m1-additional-data
	Directory	m1/eu/additional-data
	Comment	The 'Additional Data' section should only be used for information required for National, MR and Decentralised Procedures; it is therefore not generally applicable for the Centralised Procedure, other than for justifications for active substances..
70	Number	
	Title	
	Element	
	Directory	m1/eu/additional-data/CC
	Comment	Always use the country directory at this level for all procedures even when only one file is submitted to only one country during the lifecycle of the submission.
71	Number	
	Title	
	Element	
	File	m1/eu/additional-data/CC/CC-additionaldata- VAR.EXT
	Comment	<p>Filename for additional information requested composed by a fixed component "CC", a fixed component "additionaldata" and an optional variable component to be used if needed (e.g. be-additionaldata-yellowpink.pdf).</p> <p>Supporting data for variations should be not be placed in this section; wherever possible they should be placed in the relevant CTD section, primarily within Module 3 'Quality' and Module 1 (1.3.1) 'Summary of Product Characteristics, Labelling and Package Leaflet'. Where documents cannot be assigned to specific CTD-defined locations, then they should be attached to the 1.2 Application Form. The same approach should be used for renewals. Additionally see comments in row no 9.</p> <p>The 'Additional Data' section should only be used for information required for country specific information/documentation for National, MR and Decentralised Procedures; it is not applicable for the Centralised Procedure, other than for justifications for active substances.</p>

72	Number	
	Title	
	Element	
	Directory	m1/eu/util
	Comment	Additional folder to hold utility files used in EU Region only.
73	Number	
	Title	
	Element	
	Directory	m1/eu/util/dtd
	Comment	Additional folder to hold DTD files used in EU Region only.
74	Number	
	Title	
	Element	
	Directory	util/dtd
	Comment	ICH specified location for eCTD DTD files.
75	Number	
	Title	
	Element	
	Directory	util/style
	Comment	ICH specified location for eCTD style-sheet files. The style-sheet to be used should be the most recent version, which is always published as part of the specification package for download. Note that the XML instance can only point to one style-sheet and that referencing a customised style-sheet will effectively prevent the agency using the official one. It is therefore recommended not to submit customised style-sheets.

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547 **Appendix 2.1: Destination Codes**548 In most cases the destination code is an ISO-3166-1-alpha-2 code usually called "country code" or
549 "CC" in this specification.

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Code	Destination	Comment
at	Austria	ISO-3166-1-alpha-2 code
be	Belgium	ISO-3166-1-alpha-2 code
bg	Bulgaria	ISO-3166-1-alpha-2 code
common	All countries	This is not an ISO code, but should be used to identify documents that are potentially applicable to <u>all</u> EU countries, irrespective of whether they are participating in the procedure or not
cy	Cyprus	ISO-3166-1-alpha-2 code
cz	Czech Republic	ISO-3166-1-alpha-2 code
de	Germany	ISO-3166-1-alpha-2 code
dk	Denmark	ISO-3166-1-alpha-2 code
edqm	EDQM	This is not an ISO code, but should be used as per guidance for application forms provided by EDQM
ee	Estonia	ISO-3166-1-alpha-2 code
el	Greece	This is not an ISO code, but should be used as per guidance for application forms in the Notice to Applicants
ema	EMA	This is not an ISO code, but should be used for files that apply to all countries in the Centralised Procedure.
es	Spain	ISO-3166-1-alpha-2 code
fi	Finland	ISO-3166-1-alpha-2 code
fr	France	ISO-3166-1-alpha-2 code
hr	Croatia	ISO-3166-1-alpha-2 code
hu	Hungary	ISO-3166-1-alpha-2 code
ie	Ireland	ISO-3166-1-alpha-2 code
is	Iceland	ISO-3166-1-alpha-2 code
it	Italy	ISO-3166-1-alpha-2 code
li	Liechtenstein	ISO-3166-1-alpha-2 code
lt	Lithuania	ISO-3166-1-alpha-2 code
lu	Luxembourg	ISO-3166-1-alpha-2 code
lv	Latvia	ISO-3166-1-alpha-2 code
mt	Malta	ISO-3166-1-alpha-2 code
nl	Netherlands	ISO-3166-1-alpha-2 code
no	Norway	ISO-3166-1-alpha-2 code
pl	Poland	ISO-3166-1-alpha-2 code
pt	Portugal	ISO-3166-1-alpha-2 code
ro	Romania	ISO-3166-1-alpha-2 code
se	Sweden	ISO-3166-1-alpha-2 code
si	Slovenia	ISO-3166-1-alpha-2 code
sk	Slovakia	ISO-3166-1-alpha-2 code
uk	United Kingdom	This is not an ISO country code, but should be used as per guidance for application forms in the Notice to Applicants

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553 **Appendix 2.2: Language Codes**

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Code	Language
bg	Bulgarian
cs	Czech
da	Danish
de	German
el	Greek
en	English
es	Spanish
et	Estonian
fi	Finnish
fr	French
hr	Croatian
hu	Hungarian
is	Icelandic
it	Italian
lt	Lithuanian
lv	Latvian
mt	Maltese
nl	Dutch
no	Norwegian
pl	Polish
pt	Portuguese
ro	Romanian
sk	Slovakian
sl	Slovenian
sv	Swedish

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556 **Appendix 2.3: SPC, Labelling and Package Leaflet File Name Identifiers**

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PI DOC	Description
spc	Summary of Product Characteristics
annex2	Annex II
outer	Outer Packaging
interpack	Intermediate Packaging*
impack	Immediate Packaging
other	Other product information
pl	Package Leaflet
combined	Single text file incorporating the following documents: spc + annex2 + outer + interpack + impack + other + pl, in this sequence as applicable for the Centralised Procedure. Only one file per language is required. 'Combined' means presented as one document.

558 * = When labelling documents are submitted as a single file, the type 'interpack' should be used

559 **Appendix 2.4: Agency Codes and Names**

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The table below provides the list of Agencies as identified on the Heads of Medicines Agency website, i.e. <http://www.hma.eu>. The Agency Code is the value to use from within the EU Module 1 XML file.

Country	Agency Code	Human/Vet (H/V)*	Agency Name
Austria	AT-BASG	H/V	Austria - BASG-Austrian Federal Office for Safety in Health Care / Austrian Medicines and Medical Devices Agency
Belgium	BE-FAMHP	H/V	Belgium - Agence Fédérale des Médicaments et des Produits de Santé
Bulgaria	BG-BDA	H	Bulgaria - Bulgarian Drug Agency
Croatia	HR-HALMED	H	Croatia – Agency for Medicinal Products and Medical Devices of Croatia
Cyprus	CY-PHS	H/V	Cyprus - Pharmaceutical Services, Ministry of Health
Czech Rep.	CZ-SUKL	H	Czech Rep - State Institute for Drug Control
Denmark	DK-DHMA	H/V	Denmark - Danish Health and Medicines Authority
Estonia	EE-SAM	H/V	Estonia - State Agency of Medicines
EU	EU-EDQM	H/V	EDQM – European Directorate for the Quality of Medicines & HealthCare
EU	EU-EMA	H/V	EMA - European Medicines Agency
Finland	FI-FIMEA	H/V	Finland - Finnish Medicines Agency
France	FR-ANSM	H	France - ANSM - Agence nationale de sécurité du médicament et des produits de santé
Germany	DE-BFARM	H	Germany - BfArM - Bundesinstitut für Arzneimittel und Medizinprodukte
	DE-PEI	H/V	Germany – PEI - Paul-Ehrlich Institut, Bundesinstitut für Impfstoffe und biomedizinische Arzneimittel
Greece	EL-EOF	H/V	Greece - EOF - National Drug Organisation
Hungary	HU-OGYI	H	Hungary - National Institute of Pharmacy
Iceland	IS-IMCA	H/V	Iceland - Icelandic Medicines Control Agency
Ireland	IE-HPRA	H/V	Ireland - The Health Products Regulatory Authority
Italy	IT-AIFA	H	Italy - Agenzia Italiana del Farmaco
Latvia	LV-ZVA	H/V	Latvia - State Agency of Medicines

Liechtenstein	LI-LLV	H/V	Liechtenstein - Kontrollstelle für Arzneimittel beim Amt für Lebensmittelkontrolle und Veterinärwesen
Lithuania	LT-SMCA	H	Lithuania - State Medicines Control Agency
Luxembourg	LU-MINSANT	H/V	Luxembourg - Direction de la Santé Villa Louvigny Division de la Pharmacie et des Medicaments
Malta	MT-MEDAUTH	H	Malta - Medicines Authority Divizjoni Tas-Sahha Bezzjoni Ghar-Regolazzjoni Tal-Medicini
Netherlands	NL-MEB	H/V	Netherlands - College ter Beoordeling van Geneesmiddelen Medicines Evaluation Board
Norway	NO-NOMA	H/V	Norway - The Norwegian Medicines Agency
Poland	PL-URPL	H/V	Poland - Office for Registration of Medicinal Products, Medical Devices and Biocidal Products
Portugal	PT-INFARMED	H/V	Portugal - INFARMED - Instituto Nacional da Farmácia e do Medicamento Parque da Saúde de Lisboa
Romania	RO-ANMMD	H/V	Romania- National Agency for Medicines and Medical Devices
Slovak Rep.	SK-SIDC	H	Slovak Rep - State Institute for Drug Control
Slovenia	SI-JAZMP	H/V	Slovenia - Javna agencija Republike Slovenije za zdravila in medicinske pripomočke
Spain	ES-AEMPS	H/V	Spain - Agencia Española de Medicamentos y Productos Sanitarios
Sweden	SE-MPA	H/V	Sweden - Medical Products Agency
United Kingdom	UK-MHRA	H	Medicines and Healthcare products Regulatory Agency

565
566
567
568

*eCTD apply only for Marketing Authorisation applications for medicinal products for human use.

569

570 **Appendix 3: Modularised DTD for EU Module 1**

```

571 eu-regional.dtd
572
573 <!--
574 PUBLIC "-//EU//DTD eCTD EU Backbone 3.0//EN"
575 In the eCTD File Organisation: "util/dtd/eu-regional.dtd"
576
577 August 2009
578
579 Contributors:
580     ANSM (Aziz Diop)
581     EMA (Laurent Desqueper)
582     MEB (C.A. van Belkum)
583
584 February 2013
585
586 Contributors:
587     EMA (Antonios Yfantis)
588
589 June 2015
590
591 Contributors:
592     BFARM (Klaus Menges)
593
594 Meaning or value of the suffixes:
595     ? : element must appear 0 or 1 time
596     * : element must appear 0 or more time
597     + : element must appear 1 or more times
598     <none>: element must appear once and only once
599 -->
600
601 <!-- General declarations, external modules
602 references..... -->
603 <!ENTITY % countries
604 "(at|be|bg|common|cy|cz|de|dk|edqm|ee|el|es|ema|fi|fr|hr|hu|ie|is|it
605 |li|lt|lu|lv|mt|nl|no|pl|pt|ro|se|si|sk|uk)">
606 <!ENTITY % languages
607 "(bg|cs|da|de|el|en|es|et|fi|fr|hr|hu|is|it|lt|lv|mt|nl|no|pl|pt|ro|
608 sk|sl|sv)">
609
610 <!ENTITY % leaf-node "(( leaf | node-extension )*)">
611
612 <!ENTITY % envelope-module SYSTEM "eu-envelope.mod" >
613 %envelope-module;
614
615 <!ENTITY % leaf-module SYSTEM "eu-leaf.mod" >
616 %leaf-module;
617
618 <!ELEMENT specific (
619     %leaf-node;
620 )>
621 <!ATTLIST specific
622     country %countries; #REQUIRED
623 >
624 <!ELEMENT pi-doc (
625     %leaf-node;

```

```

626 )>
627 <!ATTLIST pi-doc
628     xml:lang %languages; #REQUIRED
629     type      (spc|annex2|outer|interpack|impack|other|pl|combined)
630 #REQUIRED
631     country %countries; #REQUIRED
632 >
633
634 <!-- Root element
635 ..... -->
636 <!ELEMENT eu:eu-backbone (
637     eu-envelope,
638     m1-eu
639 )>
640
641 <!ATTLIST eu:eu-backbone
642     xmlns:eu      CDATA #FIXED "http://europa.eu.int"
643     xmlns:xlink   CDATA #FIXED "http://www.w3c.org/1999/xlink"
644     xml:lang      CDATA #IMPLIED
645     dtd-version   CDATA #FIXED "3.0"
646 >
647
648 <!--
649 .....
650 -->
651 <!ELEMENT m1-eu (
652     m1-0-cover,
653     m1-2-form?,
654     m1-3-pi?,
655     m1-4-expert?,
656     m1-5-specific?,
657     m1-6-environrisk?,
658     m1-7-orphan?,
659     m1-8-pharmacovigilance?,
660     m1-9-clinical-trials?,
661     m1-10-paediatrics?,
662     m1-responses?,
663     m1-additional-data?
664 )>
665
666 <!--
667 .....
668 -->
669 <!ELEMENT m1-0-cover (
670     specific+
671 )>
672
673 <!--
674 .....
675 -->
676 <!ELEMENT m1-2-form (
677     specific+
678 )>
679

```

```

680 <!--
681 .....
682 -->
683 <!ELEMENT m1-3-pi (
684     m1-3-1-spc-label-pl?,
685     m1-3-2-mockup?,
686     m1-3-3-specimen?,
687     m1-3-4-consultation?,
688     m1-3-5-approved?,
689     m1-3-6-braille?
690 )>
691
692 <!ELEMENT m1-3-1-spc-label-pl (
693     pi-doc+
694 )>
695
696 <!ELEMENT m1-3-2-mockup (
697     specific+
698 )>
699 <!ELEMENT m1-3-3-specimen (
700     specific+
701 )>
702 <!ELEMENT m1-3-4-consultation (
703     specific+
704 )>
705 <!ELEMENT m1-3-5-approved (
706     specific+
707 )>
708 <!ELEMENT m1-3-6-braille (
709     %leaf-node;
710 )>
711
712 <!--
713 .....
714 -->
715 <!ELEMENT m1-4-expert (
716     m1-4-1-quality?,
717     m1-4-2-non-clinical?,
718     m1-4-3-clinical?
719 )>
720
721 <!ELEMENT    m1-4-1-quality           %leaf-node;>
722 <!ELEMENT    m1-4-2-non-clinical     %leaf-node;>
723 <!ELEMENT    m1-4-3-clinical        %leaf-node;>
724
725 <!--
726 .....
727 -->
728 <!ELEMENT m1-5-specific (
729     m1-5-1-bibliographic?,
730     m1-5-2-generic-hybrid-bio-similar?,
731     m1-5-3-data-market-exclusivity?,
732     m1-5-4-exceptional-circumstances?,
733     m1-5-5-conditional-ma?
734 )>
735

```

```

736 <!ELEMENT m1-5-1-bibliographic %leaf-node;>
737 <!ELEMENT m1-5-2-generic-hybrid-bio-similar %leaf-node;>
738 <!ELEMENT m1-5-3-data-market-exclusivity %leaf-
739 node;>
740 <!ELEMENT m1-5-4-exceptional-circumstances %leaf-node;>
741 <!ELEMENT m1-5-5-conditional-ma %leaf-node;>
742
743 <!--
744 .....
745 -->
746 <!ELEMENT m1-6-environrisk (
747 (m1-6-1-non-gmo | m1-6-2-gmo)?
748 )>
749 <!ELEMENT m1-6-1-non-gmo %leaf-node;>
750 <!ELEMENT m1-6-2-gmo %leaf-node;>
751
752 <!--
753 .....
754 -->
755 <!ELEMENT m1-7-orphan (
756 m1-7-1-similarity?,
757 m1-7-2-market-exclusivity?
758 )>
759 <!ELEMENT m1-7-1-similarity %leaf-node;>
760 <!ELEMENT m1-7-2-market-exclusivity %leaf-node;>
761
762 <!--
763 .....
764 -->
765 <!ELEMENT m1-8-pharmacovigilance (
766 m1-8-1-pharmacovigilance-system?,
767 m1-8-2-risk-management-system?
768 )>
769 <!ELEMENT m1-8-1-pharmacovigilance-system %leaf-node;>
770 <!ELEMENT m1-8-2-risk-management-system %leaf-node;>
771
772 <!--
773 .....
774 -->
775 <!ELEMENT m1-9-clinical-trials %leaf-node;>
776
777 <!--
778 .....
779 -->
780 <!ELEMENT m1-10-paediatrics %leaf-node;>
781
782 <!--
783 .....
784 -->
785 <!ELEMENT m1-responses (
786 specific+
787 )>
788
789 <!--
790 .....
791 -->

```

```
792 <!ELEMENT ml-additional-data (  
793     specific+  
794 )>
```

```

795  eu-envelope.mod
796
797  <!--
798  In the eCTD File Organisation: "util/dtd/eu-envelope.mod"
799
800  Version 1.4
801
802  February 2009
803
804  Contributors:
805      ANSM (Aziz Diop)
806      EMA (Laurent Desqueper)
807      MEB (C.A. van Belkum)
808
809  Version 2.0
810  February 2013
811
812  Contributors:
813      EMA (Antonios Yfantis)
814
815  Version 3.0
816  July 2015
817
818  Contributors:
819      BFARM (Klaus Menges)
820
821  -->
822
823  <!--
824  .....
825  -->
826  <!ELEMENT eu-envelope (
827      envelope+
828  )>
829
830  <!ELEMENT envelope (
831      identifier,
832      submission,
833      submission-unit,
834      applicant,
835      agency,
836      procedure,
837      invented-name+,
838      inn*,
839      sequence,
840      related-sequence*,
841      submission-description
842  )>
843
844  <!--
845  .....
846  -->
847  <!ELEMENT identifier          ( #PCDATA ) >
848  <!ELEMENT submission         ( number?, procedure tracking ) >
849  <!ELEMENT procedure tracking  ( number+ )>

```



```

850 <!ELEMENT number ( #PCDATA )>
851 <!ELEMENT submission-unit ( #PCDATA )>
852 <!ELEMENT applicant ( #PCDATA )>
853 <!ELEMENT agency EMPTY>
854 <!ELEMENT procedure EMPTY >
855 <!ELEMENT invented-name ( #PCDATA )>
856 <!ELEMENT inn ( #PCDATA )>
857 <!ELEMENT sequence ( #PCDATA )>
858 <!ELEMENT related-sequence ( #PCDATA )>
859 <!ELEMENT submission-description ( #PCDATA )>
860
861 <!--
862 .....
863 -->
864 <!ATTLIST submission
865 type (maa | var-typela | var-typelain | var-typelb | var-type2 |
866 var-nat | extension | psur | psusa | rmp | renewal | pam-sob | pam-
867 anx | pam-mea | pam-leg | pam-sda | pam-cada | pam-p45 | pam-p46 |
868 pam-paes | pam-rec | pass107n | pass107q | asmf | pmf | referral-20
869 | referral-294 | referral-29p | referral-30 | referral-31 |
870 referral-35 | referral-53 | referral-107i | referral-16clc |
871 referral-16c4 | annual-reassessment | usr | clin-data-pub-rp | clin-
872 data-pub-fv | paed-7-8-30 | paed-29 | paed-45 | paed-46 | article-58
873 | notification-61-3 | transfer-ma | lifting-suspension | withdrawal
874 | cep | none) #REQUIRED
875 mode ( single | grouping | worksharing ) #IMPLIED
876 >
877
878 <!ATTLIST submission-unit
879 type (initial | validation-response | response | additional-info |
880 closing | consolidating | corrigendum | reformat ) #REQUIRED
881 >
882
883 <!--
884 .....
885 -->
886 <!ATTLIST agency
887 code ( AT-BASG | BE-FAMHP | BG-BDA | CY-PHS | CZ-SUKL | DE-BFARM |
888 DE-PEI | DK-DHMA | EE-SAM | EL-EOF | ES-AEMPS | FI-FIMEA | FR-ANSM |
889 HR-HALMED | HU-OGYI | IE-HPRA | IS-IMCA | IT-AIFA | LI-LLV | LT-SMCA
890 | LU-MINSANT | LV-ZVA | MT-MEDAUTH | NL-MEB | NO-NOMA | PL-URPL |
891 PT-INFARMED | RO-ANMMD | SE-MPA | SI-JAZMP | SK-SIDC | UK-MHRA | EU-
892 EMA | EU-EDQM ) #REQUIRED>
893
894 <!--
895 .....
896 -->
897 <!ATTLIST procedure
898 type (
899 centralised
900 | national
901 | mutual-recognition
902 | decentralised
903 ) #REQUIRED
904 >
905

```

```
906 <!--
907 .....
908 -->
909 <!ENTITY % env-countries
910 "(at|be|bg|cy|cz|de|dk|edqm|ee|el|ema|es|fi|fr|hr|hu|ie|is|it|li|lt|
911 lu|lv|mt|nl|no|pl|pt|ro|se|si|sk|uk)">
912
913 <!--
914 .....
915 -->
916 <!ATTLIST envelope country %env-countries; #REQUIRED >
917
918 <!-- +++ -->
```

```

919 eu-leaf.mod
920
921 <!--
922 In the eCTD File Organisation: "util/dtd/eu-leaf.mod"
923
924 Version 1.4
925 August 2009
926
927 Contributors:
928     ANSM (Aziz Diop)
929     EMA (Laurent Desqueper)
930     MEB (C.A. van Belkum)
931
932 This is based on ich-ectd-3-2.dtd;
933
934 If the ich-ectd.dtd is modularized, this one could be replaced.
935 Hence, one is certain that the common and EU leaf are the same.
936 -->
937
938 <!-- ===== -
939 ->
940 <!ELEMENT node-extension (title, (leaf | node-extension)+)>
941 <!ATTLIST node-extension
942     ID ID #IMPLIED
943     xml:lang CDATA #IMPLIED
944 >
945
946 <!-- ===== -
947 ->
948 <!ENTITY % show-list " (new | replace | embed | other | none) ">
949 <!ENTITY % actuate-list " (onLoad | onRequest | other | none) ">
950 <!ENTITY % operation-list " (new | append | replace | delete) ">
951 <!ENTITY % leaf-element " (title, link-text?) ">
952 <!ENTITY % leaf-att '
953     ID ID #REQUIRED
954     application-version CDATA #IMPLIED
955     version CDATA #IMPLIED
956     font-library CDATA #IMPLIED
957     operation %operation-list; #REQUIRED
958     modified-file CDATA #IMPLIED
959     checksum CDATA #REQUIRED
960     checksum-type CDATA #REQUIRED
961     keywords CDATA #IMPLIED
962     xmlns:xlink CDATA #FIXED
963     "http://www.w3c.org/1999/xlink"
964     xlink:type CDATA #FIXED "simple"
965     xlink:role CDATA #IMPLIED
966     xlink:href CDATA #IMPLIED
967     xlink:show %show-list; #IMPLIED
968     xlink:actuate %actuate-list; #IMPLIED
969     xml:lang CDATA #IMPLIED
970     '>
971
972 <!ELEMENT leaf %leaf-element;>
973 <!ATTLIST leaf

```

```
974         %leaf-att;
975     >
976     <!ELEMENT title (#PCDATA)>
977     <!ELEMENT link-text (#PCDATA | xref)*>
978
979     <!ELEMENT xref EMPTY>
980     <!ATTLIST xref
981         ID ID #REQUIRED
982         xmlns:xlink CDATA #FIXED "http://www.w3c.org/1999/xlink"
983         xlink:type CDATA #FIXED "simple"
984         xlink:role CDATA #IMPLIED
985         xlink:title CDATA #REQUIRED
986         xlink:href CDATA #REQUIRED
987         xlink:show %show-list; #IMPLIED
988         xlink:actuate %actuate-list; #IMPLIED
989     >
990
991     <!-- +++ -->
992
```