
Guidance for Industry

Providing Regulatory Submissions in Electronic Format — Human Pharmaceutical Product Applications and Related Submissions

DRAFT GUIDANCE

This guidance document is being distributed for comment purposes only.

Comments and suggestions regarding this draft document should be submitted within 60 days of publication in the *Federal Register* of the notice announcing the availability of the draft guidance. Submit comments to Dockets Management Branch (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852. All comments should be identified with the docket number listed in the notice of availability that publishes in the *Federal Register*.

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**U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)**

**August 2003
Electronic Submissions**

Guidance for Industry

Providing Regulatory Submissions in Electronic Format — Human Pharmaceutical Product Applications and Related Submissions

Additional copies are available from:

*Division of Drug Information, HFD-240
Center for Drug Evaluation and Research
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<http://www.fda.gov/cder/guidance/index.htm>

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Center for Biologics Evaluation and Research
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<http://www.fda.gov/cber/guidelines.htm>*

**U.S. Department of Health and Human Services
Food and Drug Administration
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Center for Biologics Evaluation and Research (CBER)**

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Contains Nonbinding Recommendations

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The following specifications will be provided with this guidance as stand alone documents. They will be updated periodically. To ensure that you have the most recent versions, check the appropriate center's guidance Web page or go to <http://www.fda.gov/cder/oim>.

- FDA eCTD Table of Contents Headings and Hierarchy
- FDA Module 1 Specification
- FDA Modules 2-5 Specification
- Study Tagging Files Specification

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1
2
3 **Guidance for Industry¹**
4 **Providing Regulatory Submissions in Electronic Format — Human**
5 **Pharmaceutical Product Applications and Related Submissions**
6
7

8
9 This draft guidance, when finalized, will represent the Food and Drug Administration's (FDA's) current
10 thinking on this topic. It does not create or confer any rights for or on any person and does not operate to
11 bind FDA or the public. An alternative approach may be used if such approach satisfies the requirements
12 of the applicable statutes and regulations. If you want to discuss an alternative approach, contact the FDA
13 staff responsible for implementing this guidance. If you cannot identify the appropriate FDA staff, call
14 the appropriate number listed on the title page of this guidance.
15

16
17
18
19 **I. INTRODUCTION**
20

21 This is one in a series of guidance documents intended to assist applicants making regulatory
22 submissions to the FDA in electronic format. This guidance discusses issues related to the
23 electronic submission of applications for human pharmaceutical products and related
24 submissions, including abbreviated new drug applications (ANDAs), biologics licensing
25 application (BLAs), investigational new drug applications (INDs), new drug application (NDAs),
26 master files, advertising material, and promotional labeling.²
27

28 The goals of the guidance are to enhance the receipt, processing, and review of electronic
29 submissions to the FDA. Specifically, this guidance makes recommendations regarding the use
30 of *eCTD document information backbone files* to facilitate efficient submission handling. In
31 addition, the guidance provides more specificity than in previous guidances with regard to the
32 organization of individual submissions. Finally, the guidance harmonizes the organization and
33 formatting of multiple submission types.
34

35 We recommend that users continue to refer to the guidance for industry *Regulatory Submissions*
36 *in Electronic Format — General Considerations* for discussion of issues common to multiple
37 submission types, such as acceptable file formats and submission media.
38

¹This guidance has been developed by the Center for Drug Education and Research (CDER) and the Center for Biologics Evaluation and Research (CBER).

²Agency guidance documents on electronic submissions will be updated regularly to reflect the evolving nature of the technology and the experience of those using this technology.

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39 This guidance has a series of attachments. They are being provided as stand alone documents to
40 make them more accessible to the user. Attachments include:

- 41
- 42 • A Comprehensive Table of Contents Headings and Hierarchy for a complete submission
 - 43 • The eCTD Document Information Backbone Files Specification for Module 1
 - 44 • The eCTD Document Information Backbone Files Specification for Modules 2 through 5
 - 45 • Study Tagging Files Specification
- 46

47 FDA's guidance documents, including this guidance, do not establish legally enforceable
48 responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should
49 be viewed only as recommendations, unless specific regulatory or statutory requirements are
50 cited. The use of the word *should* in Agency guidances means that something is suggested or
51 recommended, but not required.

52

53

II. GENERAL ISSUES

54

55 This portion of the guidance makes recommendations on general organizational issues related to
56 the electronic submission of applications for human pharmaceutical products. The requirements
57 for ***the content*** of such applications are described in our regulations in chapter 21 of the Code of
58 Federal Regulations (CFR). Additional recommendations on the contents of applications is
59 provided in Agency guidances, which are available on the Agency Web page.

60

61

A. Scope

62

63 This guidance applies to marketing applications (ANDAs, BLAs, NDAs), investigational
64 applications (INDs), and related submissions (master files, advertising material, and promotional
65 labeling). The guidance applies equally to original submissions, supplements, and amendments
66 to these applications and related submissions.

67

68

B. Guidance on Applications and Related Submissions

69

70 This document provides general guidance on how to organize application information for
71 electronic submission to the Agency. More specific guidance on the information to be included
72 in the technical sections of applications and submissions is described in a series of guidance
73 documents based on the International Conference on Harmonisation of Technical Requirements
74 for Registration of Pharmaceuticals for Human Use (ICH) common technical document (CTD):
75 *M4: Organization of the CTD, M4Q: The CTD – Quality; M4S – The CTD Safety; M4E: The*
76 *CTD – Efficacy.*

77

78

C. ICH eCTD Specification

79

80 The recommendations made here on how to organize application information are based on the
81 ICH CTD and the electronic CTD (eCTD), which was developed by the ICH M2 expert working
82 group. Although the CTD and the eCTD were designed for marketing applications, they apply
83

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84 equally to other submission types, including INDs, master files, advertising material, and
85 promotional labeling. Details on the specification for the ICH eCTD can be found in the
86 guidance document *M2 eCTD: Electronic Common Technical Document Specification*.

87

D. Document Granularity and Table of Contents Headings

89

90 Submissions are a collection of documents that include forms, reports, and datasets. When
91 making an electronic submission, ***each document should be provided as a separate file***.³ The
92 documents, whether for a marketing application, an investigational application, or related
93 submission should be organized based on the five modules in the CTD: module 1 includes
94 administrative information and prescribing information, module 2 includes CTD summary
95 documents, module 3 includes information on quality, module 4 includes the nonclinical study
96 reports, and module 5 includes the clinical study reports.

97

98 Each module has a table of contents defined by headings arranged in a hierarchical fashion. We
99 have provided a comprehensive listing of headings and hierarchy with this guidance as a stand-
100 alone attachment (see the Comprehensive Table of Content Headings and Hierarchy). You
101 should contact our electronic submission coordinator prior to using any other headings.
102 Reviewers will not be able to access documents associated with headings not listed in this
103 attachment. Unless otherwise specified, generally, documents should be organized so that the
104 subject matter covered by a document is specifically associated with the lowest heading in the
105 hierarchy. For example, if you look at the attachment Comprehensive Table of Content Headings
106 and Hierarchy, “Meeting request” and “Meeting background material” are the lowest headings
107 in the “Meeting” hierarchy. Therefore, the meeting request and meeting background material
108 should ***not*** be contained in one document. The meeting request would be in one document, and
109 the meeting background material would be in another document.

110

111 A document can be associated with more than one heading while the actual electronic file is only
112 provided once.

E. Electronic Submissions

113

114
115 Under our regulations (21 CFR 11.2(b)(2)), applicants and sponsors are expected to contact us
116 for details on how to proceed with electronic submissions. These details are usually provided in
117 guidance documents. For example, we are already receiving marketing application submissions
118 for human pharmaceutical products in electronic format based on details provided in the
119 guidances for industry *Providing Regulatory Submissions in Electronic Format – NDA*,
120 *Providing Regulatory Submissions in Electronic Format – ANDA*, and *Providing Regulatory*
121 *Submissions to the Center for Biologics Evaluation and Research (CBER) in Electronic format –*
122 *Biologics Marketing Applications*. These guidances do not recommend using the eCTD
123 backbone files described in this guidance. However, we recommend that you begin submitting
124 eCTD backbone files as described in this guidance because we believe that having the
125 information in the eCTD backbone files will result in greater efficiency in the future. Once low-
126 cost, readily available tools are developed that allow virtually all sponsors and applicants to

³ Some documents are provided in more than one file because a file containing everything would be too large.

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127 easily generate the eCTD backbone files and once this guidance is final, it will replace those
128 earlier guidances. We recommend that users continue to refer to the guidance for industry
129 *Regulatory Submissions in Electronic Format— General Considerations* for discussion of issues
130 common to multiple submission types, such as acceptable file formats and submission media.
131

132 When we are ready to receive a particular submission type in electronic format only, we usually
133 identify it in public docket 92s-0251. Under 21 CFR part 11, you then have the option of
134 providing that submission type in electronic format according to FDA guidance so that the
135 Agency may adequately process, archive, and review the files.
136

137 Once you begin to submit a specific application in electronic format based on this guidance, all
138 subsequent submissions to the application including all amendments and supplements should
139 include eCTD backbone files. Without the eCTD backbone files, we will not be able to
140 adequately manage, process, archive, or review the submissions. If you choose to submit an
141 original application using the eCTD backbone files, you should obtain an application number in
142 advance by contacting the appropriate center.
143

144 We believe it is most beneficial to begin your eCTD-based submissions with the initial
145 submission of an application. Contact the appropriate center first if you wish to make eCTD-
146 based submissions to pending applications. You should avoid the submission of any paper
147 documents when you follow the recommendations in this document. The maximum benefit will
148 be derived once an application is in electronic format. This is particularly true for the IND,
149 where submissions are provided over a long period of time. You should submit the electronic
150 document information for all documents in the eCTD backbone files following the ICH eCTD
151 specifications and the Comprehensive Table of Contents Headings and Hierarchy.
152

F. Document Information for Previous Submissions

153
154
155 If you decide to submit a specific application in electronic format based on this guidance, you do
156 not have to provide eCTD backbone files for the previous submissions to the application. For
157 example, if you submitted an original application in 2001 and now submit an amendment to the
158 application using the XML document information files, you do not have to go back and submit
159 the document information for the files submitted in 2001.
160

G. Referencing Previously Submitted Documents⁴

161
162
163 You do not have to submit additional copies when referencing a previously submitted document,
164 provided the document was submitted in electronic format with the proper electronic document
165 information included in the eCTD backbone files. Instead, you should include the information by
166 reference by providing in the text of the document (1) the application or master file number, (2)
167 the date of submission (e.g., letter date), (3) the document name, and (4) the page number of the

⁴ This includes previously submitted information by reference for master files, market applications, and investigational applications is discussed under 21 CFR 312.23(a)(11)(b), 21 CFR 314.50(g)(1), 21 CFR 314.420(b), 21 CFR 314(a) and 21 CFR 601.51(a).

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168 referenced document. The details on how to include this information in the eCTD backbone file
169 is provided in the eCTD Backbone Files Specification.

170
171 If a document was previously submitted in either electronic format or paper without electronic
172 document information in eCTD backbone files, you should reference the document as with any
173 paper submission. In the text of the document, you should include (1) the application or master
174 file number, (2) the date of submission (e.g., letter date), (3) the document name, (4) the page
175 number, and (5) the submission identification (e.g., submission serial number, volume number,
176 electronic folder, and file name) of the referenced document. In such cases, providing an
177 electronic copy of the previously submitted documents can increase the utility of the submission.
178 These documents, like all documents in the submission, should be appropriately described in the
179 eCTD backbone files.

180
181 When referring to documents that are part of other applications, please remember to include the
182 appropriate letters of authorization with the submission (e.g., 21 CFR 314.420(d)).

H. Refuse to File

183
184
185 We may refuse to file an application or supplement under our regulations (e.g., §§ 314.101 and
186 601.2) if the submission is illegible, uninterpretable, or otherwise clearly inadequate including
187 having incompatible formats or inadequate organization. This applies to both paper and
188 electronic submissions. The absence of electronic datasets in an acceptable format to permit
189 review and analysis may be considered inadequate, resulting in a refuse to file decision.⁵
190 Following the recommendations in this guidance document will help ensure that your electronic
191 application meets the requirements of FDA regulations and can be archived, loaded on our
192 network drives, and reviewed within specified time frames using our tools.

I. Submission of Paper Copies

193
194
195
196 If you provide a document in electronic format, paper copies of the document, including desk
197 copies, are not needed.

J. Scanned Documents

198
199
200
201 Scanned documents submitted electronically as images are not as useful for review as documents
202 that are text based. Image-based documents are more difficult to read and cannot be
203 electronically searched. It takes longer to print image-based documents, and they occupy more
204 storage space than text-based documents. For these reasons, we strongly urge that you provide
205 text-based documents, rather than image files, whenever possible. We understand that certain
206 documents may only be available as image files. Handwritten documents and documents that
207 were generated independent from the company, such as journal publications, may be available
208 only in paper. However, we expect documents such as study reports recently generated by the
209 company or recently generated as the result of the company's request to be available as text-
210 based documents. We understand that legacy study reports, those generated years ago, may only
211

⁵ See more on this in CBER's SOPP 8404.

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212 be available in paper. For these reports, especially those for pivotal studies, you may want to
213 consider converting these documents from image files to text-based files using optical character
214 recognition (OCR) or some other technique.

215

K. The Field Copy

217

218 District offices have access to documents submitted in electronic format. Therefore, when
219 sending submissions in electronic format, you need not provide a separate copy to the field.

220

L. Electronic Signatures

222

223 Documents required by regulations to be submitted with an original signature (e.g., FDA form
224 356h, FDA form 1571) can be submitted with electronic signatures provided that you follow the
225 controls described under 21 CFR part 11 and that our system can automatically validate the
226 signature.

227

M. Number of Copies of Electronic Files

229

230 You need only provide a single copy of the electronic portions of a submission and should not
231 send copies directly to the reviewer or review division without following procedures described in
232 this guidance. Do not bypass the controls for electronic files described in 21 CFR 11. This will
233 make the documents unreliable for review.

234

N. Naming Electronic Files

235

236 To function properly, the eCTD backbone files must have specific names (e.g., index.xml, us-
237 regional.xml). For files without a specific name, you should provide a name that is indicative of
238 the contents (e.g., protocol-101). The file name should allow a reviewer to infer some concept of
239 the file's contents relative to other files. The file name should be less than or equal to 64
240 characters including the appropriate file extension. You should use only letters (lower case),
241 numbers, or hyphens in the name.

242

O. Naming folders

244

245 The terms *folder* and *subfolder* are used in this guidance and are intended to be synonymous with
246 *directory* and *subdirectory*. The sequence and regional administrative folders should have
247 specific names (e.g., 0000\ml\us) for proper and efficient processing of the submission.
248 Recommendations regarding naming the main sequence folders and regional administrative
249 folders can be found in section III, below. You can use only letters (lower case), numbers, or
250 hyphens in the name. The length of the folder name should not exceed 64 digits, and the length
251 of the path should not exceed 256 characters. You should not include empty folders in the
252 submission.

253

P. File Formats

254

255

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257 We recommend that you send electronic documents in the file formats specified in this guidance.
258 We will not be able to manage, process, archive, or review documents provided in other file
259 formats.

260
261 The following file formats should be used:

- 262
- 263 • PDF for reports and forms
- 264 • SAS XPORT transport files (XPT) for datasets
- 265 • ASCII text files or SAS files for statistical program controls (e.g., SAS program files,
266 NONMEM control files) using *txt* for the file extension
- 267 • XML for document information files
- 268 • Stylesheets (XSL) and document type definition (DTD) for the XML document
269 information files
- 270 • Microsoft Word for draft labeling (check our Web site for the current version)

271
272 The guidance for industry on *Regulatory Submissions in Electronic Format — General*
273 *Considerations* provides details on submitting documents in portable document format (PDF)
274 format and datasets in SAS transport format (XPT).

275
276 In the future, we may consider other file formats for use with electronic submissions, or we may
277 consider the use of the current formats with other submissions. We recommend that you wait for
278 published guidance documents regarding the submission of file formats before submitting them
279 for review.

280 **Q. PDF Bookmarks and Hypertext Links**

281
282
283 For documents with a table of contents, provide bookmarks and hypertext links for each item
284 listed in the table of contents including for tables, figures, publications, references, and
285 associated appendices. These bookmarks and hypertext links are essential for efficient
286 navigation through documents. You should make the bookmark hierarchy identical to the table of
287 contents. Navigation efficiency is also improved by providing hypertext links throughout the
288 body of the document to supporting annotations, related sections, references, appendices, tables,
289 or figures that are not located on the same page.

290
291 It is possible to link to other documents in a submission using relative paths when creating
292 hypertext linking. Absolute links that reference specific drives and root directories are not
293 functional once the submission is loaded onto the document repository. For example, the link
294 path `..\..\123456\0001\...` will work, but the link `c:\123456\0001\...` will not work. However,
295 you should keep in mind that some documents may be subsequently replaced or appended,
296 possibly rendering the link obsolete.

297
298 When creating bookmarks and hyperlinks, choose the magnification setting *Inherit Zoom* so that
299 the destination page displays at the same magnification level that the reviewer is using for the
300 rest of the document.

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R. Sending Electronic Submissions

302
303
304 All submissions provided in electronic format must be sent to the appropriate central document
305 room facility for processing to maintain the integrity of the submission as required under 21 CFR
306 part 11. Electronic documents sent directly to division document rooms or to reviewers bypass
307 the controls established for the receipt and archiving of documents and are not considered valid
308 documents for review.

309
310 Submissions can be sent using secure email to the appropriate central document room. We are
311 currently able to accept only submissions of less than 50 megabytes through secure email.

S. Technical Problems or Questions

312
313
314 If you have any questions on technical issues related to providing electronic submissions
315 according to the recommendations in this guidance, contact the electronic submission
316 coordinator at esub@cder.fda.gov. Specific technical issues related to submissions to CBER
317 should be sent to esubprep@cber.fda.gov. Specific questions pertaining to content should be
318 directed to the appropriate review division or office.

319

320

321

322

III. ORGANIZING THE MAIN SUBMISSION FOLDER

323

324 All documents in the electronic submission should be placed in a main submission folder using a
325 four-digit sequence number for the application with the original submission for an application
326 designated 0000. Number each submission to the same application with consecutive numbers.
327 For example, the folder for the 3rd submission to an application, whether it is an amendment,
328 supplement, or general correspondence is numbered 0002. The 4th submission is numbered
329 0003. This also applies to applications where previous submissions were not based on the ICH
330 eCTD specifications. For example, if the submission is the 25th and the previous 24 were in
331 paper, you would number the folder 0024. You should place the document information for the
332 eCTD backbone file for modules 2 to 5 for the submission in this folder (*index.xml*). You should
333 place the checksum file in the same folder.

334

335 We recommend that you use subfolders to organize files in a submission, including for each
336 module *m1*, *m2*, *m3*, *m4*, and *m5*, respectively. There is a subfolder *util* to organize eCTD
337 technical files in the submission. Place these subfolders in the sequence number folder (e.g.
338 folder named 0000 for the initial submission to an application). Do not include empty subfolders.

339

340 The following sections provide guidance for organizing the folders and files in the *m1*, *m2*, *m3*,
341 *m4*, *m5*, and *util* folders.

342

A. Module-1 Administrative Information and Prescribing Information Folder

344

345 Module 1 contains administrative and labeling documents. The organization of the documents in
346 module 1 is the same for all applications and related submissions. The subject matter for each
347 document should be assigned to the lowest level of the hierarchy outlined in the attached

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348 template for the Table of Contents Headings and Hierarchy. Note that some headings apply only
349 to specific applications or specific submissions. You should create a folder named *us* and place it
350 in the folder named *m1*. The documents for module 1 are placed in the *us* folder including the *us-*
351 *regional.xml* file pertaining to the eCTD backbone files for module 1. Below are some additional
352 details on providing specific types of documents.

353

354 1. *eCTD backbone document information files*

355

356 We recommend that you provide the document information for the documents provided in
357 module 1 in the *us-regional.xml* file. The details on creating these files are in the eCTD
358 Backbone Files Specification attachments.

359

360 2. *Cover letter (optional)*

361

362 If you decide to include a cover letter, we recommend you include the following information:

363

- 364 • Description of the submission including appropriate regulatory information
- 365 • Description of the submission including the approximate size of the submission (e.g., 2
366 gigabytes), the format used for DLT tapes, and the type and number of electronic media
367 used (e.g., three CDROMs), if applicable
- 368 • Statement that the submission is virus free with a description of the software (name,
369 version, and company) used to check the files for viruses
- 370 • Regulatory and technical point of contact for the submission

371

372 3. *Labeling*

373

374 The following section describes how to provide specific labeling documents.

375

376 a. Labeling history

377

378 You can provide a history summarizing labeling changes as a single PDF file. The
379 following information will help us confirm changes made to the labeling:

380

- 381 • Complete list of the labeling changes being proposed in the current
382 submission and the explanation for the changes
- 383 • Date of the last approved labeling
- 384 • History of all changes since the last approved labeling. With each change,
385 you should note the submission that originally described the change and the
386 explanation for the change.
- 387 • List of supplements pending approval that may affect the review of the
388 labeling in the current submission

389

390 b. Labeling text

391

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392 The labeling text is the content of labeling as defined in 21 CFR 201.57 or 201.66
393 and includes all text, tables, and figures. The labeling text should be formatted as
394 follows:

- 395
- 396 • Paper size: 8.5 by 11 inches with 1-inch margins
- 397 • Page orientation: Portrait
- 398 • No columns, headers, or footers
- 399 • Pagination starting with page 1
- 400 • Text font: Times New Roman 12 point or equivalent font
- 401 • Table font: Times New Roman 10- or preferably 12-point or equivalent
- 402 font
- 403

404 Each example of labeling text should be provided as an individual PDF file. Draft
405 labeling text should be provided in both PDF and Word format (the Word version
406 can be edited).

407

408 c. Labeling samples

409

410 Each labeling sample (e.g., carton labels, container labels, package inserts) should
411 be provided as individual PDF files. The samples should (1) include all panels, if
412 applicable; (2) be provided in their actual size; and (3) reflect the actual color
413 proposed for use.

414

415 4. *Advertisements and promotional material*

416

417 Advertisements and promotional labeling includes material submitted under 21 CFR
418 314.81(b)(3)(i), or 601.12(f)(4) as part of the postmarketing reporting regulations for approved
419 applications or submitted under the requirements of 21 CFR 314.550 and 601.45 (part of the
420 accelerated approval requirements and restricted distribution for drug and biological products)
421 related to investigational new drug applications (INDs). Also included are requests for comment
422 on materials for the development of evidence to support future advertising or promotional
423 labeling claims.⁶ You should submit promotional material to the appropriate marketing
424 applications. You should not mix submissions with advertising and promotional labeling with
425 submissions containing other types of information.

426

427 Each promotional piece should be provided as an individual PDF file. In cases when
428 promotional writing or images cover more than one page (e.g., a brochure spread), the reviewer
429 should be able to view the entire layout at one time. For three-dimensional objects, you should
430 provide a digital image of the object in sufficient detail to allow us to review the promotional
431 material. In addition, you should provide information adequate to determine the size of the object
432 (e.g., point size, dimensions). A dimensional piece shown flat, such as a flattened carton, can
433 also be submitted.

⁶ Under 21 CFR 99, such materials information on unapproved/new uses for drugs, biological products, and devices.

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434

435 If you choose to include cover letters with your submissions of advertising and promotional
436 material, they should be provided as individual PDF files and indicate any additional important
437 information to the reviewer, such as which materials need priority reviews.

438

439 If references are provided, each reference should be submitted as an individual PDF file and
440 placed in the appropriate module based on subject matter. If possible, you should highlight the
441 sections of the full reference that you refer to in the promotional materials. When a reference is
442 used to support a claim in proposed promotional materials voluntarily submitted for advisory
443 opinion or Agency comment, provide a hypertext link to the page of the reference or labeling
444 that contains the supporting information.

445

446 For promotional materials submitted as part of the postmarketing reporting requirements, the
447 hypertext links to references or labeling are optional. Although not required, references improve
448 the efficiency of a review.

449

450 5. *Marketing annual reports*

451

452 You should provide FDA form 2252 as a single PDF file.

453

454 In the annual report, you must summarize new information that might affect the safety,
455 effectiveness or labeling of the drug product (314.81(b)(2)(i)). Documents summarizing the
456 following areas should be provided as separate PDF files:

457

- 458 • CMC changes
- 459 • Appropriate nonclinical studies
- 460 • Clinical pharmacology information
- 461 • Safety information
- 462 • Labeling changes
- 463 • Other significant new information

464

465 Reports for nonclinical (314.81(b)(v)) and clinical (314.81(b)(vi)) studies should be provided in
466 modules 4 (Safety) and 5 (Efficacy), respectively. Information for chemistry, manufacturing, and
467 controls (314.81(b)(iv)) should be provided in module 3 (Quality).

468

469 You should provide the distribution data (314.81(b)(2)(ii)) as a single PDF file. A log of
470 outstanding regulatory business (314.81(b)(2)(ix)) should be provided as a single PDF file. The
471 status of postmarketing study commitments (314.81(b)(2)(vii)) should be provided as a single
472 PDF file. In the postmarketing study commitments file, you should include a bookmark for each
473 study described. The status of other postmarketing studies (314.81(b)(2)(viii)) should be
474 provided as a single PDF file. You should include a bookmark for each study described.

475

476 Labeling provided with the annual report should be provided as described previously.

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478 6. *IND annual report*

479
480 You should provide individual study information (312.33(a)) as a single PDF file. You should
481 provide the summaries of the clinical studies (312.33(b)), including phase 1 changes (312.33(e),
482 nonclinical studies (312.33(b)), microbiology (312.33(b)), and manufacturing (312.33(b)) as
483 separate PDF files. The general investigational plan for the coming year (312.33(c)) should also
484 be provided as a separate PDF file. The general investigational plan for the first submission
485 should be included here. You should also include a separate PDF file for a summary of foreign
486 marketing developments (312.33(f)) and one for a log of outstanding regulatory business
487 (3212.33(g)).

488 489 7. *Information amendments*

490
491 You should include documents that are provided in information amendments in the appropriate
492 module using the appropriate headings to describe the subject matter. In the unusual case when
493 information amendments do not fit appropriately under any heading in the CTD, you should
494 place the documents in module 1 under the heading “information amendment: Information not
495 covered under modules 2 to 5.” Provide a separate PDF file for each subject covered. Documents
496 that apply to more than one module should be placed under the heading “Multiple module
497 information amendments.”

498 499 **B. Module-2 Summary folder**

500
501 Place the documents for module 2 in the *m2* folder. The subject matter for each document should
502 be specific for the lowest level of the hierarchy outlined in the example provided with this
503 document. Each document should be provided as an individual PDF file. The subfolders
504 described in the *Electronic Common Technical Document Specification* from the ICH M2 expert
505 working group are optional. They are not necessary for the review of the submission. If you
506 choose to use the additional subfolder, we will maintain the subfolder structure so links will
507 function properly.

508 509 **C. Module-3 Quality folder**

510
511 The organization of the module 3 folder is the same for all applications and related submissions.
512 Place the documents for module 3 in the *m3* folder. The subject matter for each document should
513 be specific for the lowest level of the hierarchy outlined in the attachment on Table of Contents
514 Headings and Hierarchy provided with this guidance. The only exception is for pharmaceutical
515 development information, which can be provided as a single document. Each document should
516 be provided as an individual PDF file. The subfolders described in the *Electronic Common*
517 *Technical Document Specification* from the ICH M2 expert working group are optional. They are
518 not necessary for the review of the submission. If you choose to use the additional subfolder, we
519 will maintain the subfolder structure used so links will function properly.

520
521 You should provide the files pertaining to Key Literature References (CTD section 3.3) as
522 individual PDF files. The filenames should be short and meaningful.

523

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524 **D. Module-4: Safety**

525
526 The organization of the module 4 folder is the same for all applications and related submissions.
527 Place the documents for module 4 in the *m4* folder. The subject matter for each document should
528 be specific for the lowest level of the hierarchy outlined in the attachment on Table of Contents
529 and Hierarchy provided with this guidance. The headings for study reports should also be
530 specific for the lowest level of the hierarchy. Each document should be provided as an individual
531 PDF file. The subfolders described in the *Electronic Common Technical Document Specification*
532 from the ICH M2 expert working group are optional. They are not necessary for the review of
533 the submission. If you choose to use the additional subfolder, we will maintain the subfolder
534 structure so links will function properly.

535 536 *I. Study reports*

537
538 Typically, a single document should be provided for each study report included in this module.
539 However, if you provide the study reports as multiple documents, you should confine the subject
540 matter of each document to a single item in the following list.

- 541
- 542 • Legacy Study Report⁷
- 543 • Synopsis
- 544 • Study report body
- 545 • Protocol and amendments
- 546 • Signatures of principal or coordinating investigator(s)
- 547 • Audit certificates and reports
- 548 • Documentation of statistical methods and interim analysis plans
- 549 • Documentation of inter laboratory standardization methods of quality assurance
- 550 procedures if used
- 551 • Publications based on the study
- 552 • Important publications referenced in the report
- 553 • Compliance and/or drug concentration data
- 554 • Individual subject data listings
 - 555 — Data tabulations
 - 556 -Data tabulations datasets
 - 557 -Data definitions
 - 558 — Data listing
 - 559 -Data listing datasets
 - 560 - Data definitions
 - 561 — Analysis datasets
 - 562 - Analysis datasets
 - 563 - Analysis programs
 - 564 - Data definitions
 - 565 — IND safety reports
- 566

⁷ The legacy study report is included to include study reports that are already prepared as single documents.

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567 In the following examples, you should provide the study reports as separate documents

- 568
- 569 • Documents previously submitted. If you have provided a document in a previous
 - 570 submission (e.g., protocol), you should provide a reference to the protocol, not resubmit
 - 571 the protocol.
 - 572 • Additional information added. If you think you will want to add information to the
 - 573 study report over time (e.g., audit information, publication based on the study), you
 - 574 should provide the study reports as separate documents and then the new information
 - 575 can be provided as a separate file, rather than replacing the entire study report.
 - 576 • Different file formats. If you submit the individual animal data listings as datasets (e.g.,
 - 577 SAS transport files), you should provide these as separate files from the study reports
 - 578 (e.g., submitted as PDF files).
 - 579

580 When providing a study report in more than one document, you should include the Study

581 Tagging File (STF) described in the attachment Study Tagging File Specification.

582

583 2. *Literature references*

584

585 You should provide each literature reference as an individual PDF file. The filenames should be

586 short and meaningful.

587

588 3. *Datasets*

589

590 You should place all datasets and related files (e.g., data definition file, program files) for each

591 study in a single folder incorporating the study's unique identification in the folder name. All

592 study folders should be placed in a single folder named *datasets*. The *datasets* folder should be

593 placed in the *m4* folder.

594

595 We plan on issuing separate guidance on organizing and submitting animal line listings. Until

596 that guidance has been finalized, you should refer to the guidance for industry *Providing*

597 *Regulatory Submissions in Electronic Format – NDA* for details on the submission of animal line

598 listings.

600 **E. Module-5: Clinical Study Reports folder**

601

602 The organization of the module 5 folder is the same for all applications and related submissions.

603 Place the documents for module 5 in the *m5* folder. The subject matter for each document should

604 be specific for the lowest level of the hierarchy outlined in the attachment on Table of Contents

605 Headings and Hierarchy provided with this guidance. One exception is that legacy study reports

606 can be provided as a single document. Each document should be provided as an individual PDF

607 file. The subfolders described in the guidance *Electronic Common Technical Document*

608 *Specification* from the ICH M2 expert working group are optional. They are not necessary for the

609 review of the submission. If you choose to use the additional subfolder, we will maintain the

610 subfolder structure so links will function properly.

611

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612 1. *Tabular Listing of All Clinical Studies*

613

614 You should provide the tabular listing of all clinical studies as a single PDF file.

615

616 2. *Study reports*

617

618 Typically, clinical study reports are provided as more than one document based on the ICH E3
619 guidance document when providing a study.⁸ In addition, if you have provided a document in a
620 previous submission (e.g., protocol), you should provide a reference to the protocol rather than
621 resubmitting the protocol. In cases when a legacy report has already been prepared as a single
622 electronic document, you can provide the entire study report, other than the case report forms
623 (CRFs) and individual data listings, as a single document. The documents that should be
624 included in a study report are listed below:

625

- 626 • Legacy Study Report⁹
- 627 • Synopsis¹⁰ (E3 2)
- 628 • Study report (E3 1, 3 to 15)
- 629 • Protocol (E3 16.1.1)
- 630 • Protocol amendment [number] (E3 16.1.2)
- 631 • Sample case report forms (E3 16.1.2)
- 632 • List of IECs or IRBs (E3 16.1.3) and consent forms
- 633 • List and description of investigators (E3 16.1.4) and sites
- 634 • Signatures of principal or coordinating investigator(s) or sponsor's responsible
635 medical officer (E3 16.1.5)
- 636 • Listing of patients receiving test drug(s) from specified batch (E3 16.1.6)
- 637 • Randomisations scheme (E3 16.1.7)
- 638 • Audit certificates (E3 16.1.8) and reports
- 639 • Documentation of statistical methods (E3 16.1.9) and interim analysis plans
- 640 • Documentation of inter laboratory standardization methods of quality assurance
641 procedures if used (E3 16.1.10)
- 642 • Publications based on the study (E3 16.1.11)
- 643 • Important publications referenced in the report (E3 16.1.12)
- 644 • Discontinued patients (E3 16.2.1)
- 645 • Protocol deviations (E3 16.2.2)
- 646 • Patients excluded from the efficacy studies (E3 16.2.3)
- 647 • Demographic data (E3 16.2.4)
- 648 • Compliance and/or drug concentration data (E3 16.2.5)
- 649 • Individual efficacy response data (E3 16.2.6)
- 650 • Adverse event listings (E3 16.2.7)

⁸ When providing a study report in more than one document, you should include the Study Tagging File (STF) described in the attachment Study Tagging File Specification.

⁹ The legacy study report is included to include study reports that are already prepared as single documents.

¹⁰ The synopsis should be provided as a document separate from the study report.

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- 651 • Listing of individual laboratory measurements by patient (E3 16.2.8)
- 652 • Case report forms (E3 16.3)
- 653 • Individual patient data listings (CRTs) (E3 16.4)
 - 654 — Data tabulations
 - 655 - Data tabulations datasets
 - 656 - Data definitions
 - 657 — Data listing
 - 658 - Data listing datasets
 - 659 -Data definitions
 - 660 — Analysis datasets
 - 661 - Analysis datasets
 - 662 - Analysis programs
 - 663 - Data definitions
 - 664 — Subject profiles
 - 665 — IND safety reports

3. *Case report forms*

669 You should provide each individual subject's complete CRF as a single PDF file. If a paper CRF
670 was used in the clinical trial, the electronic CRF should be a scanned image of the paper CRF
671 including all original entries with all modifications, addenda, corrections, comments,
672 annotations, and any extemporaneous additions. If electronic data capture was used in the
673 clinical trial, you should submit a PDF-generated form or other PDF representation of the
674 information.

675
676 You should use the subject's unique identifier as the title of the document and the file name.
677 These names are used to assist reviewers in finding the CRF for an individual subject. Each CRF
678 must have bookmarks as part of the comprehensive table of contents required under § 314.50(b).
679 We recommend bookmarks for each CRF domain and study visit to help the reviewer navigate
680 the CRFs. For addenda and corrections, making a hypertext link from the amended item to the
681 corrected page or addendum is a useful way to avoid confusion. Bookmarks for these items
682 should be displayed at the bottom of the hierarchy.

4. *Datasets*

686 You should place all datasets and related files (e.g., data definition files, program files) for each
687 study in a single folder incorporating the study's unique identification in the folder name. All
688 study folders should be placed in a single folder named *datasets*. Programs included in your
689 submission should be executable using PC SAS.

690
691 We plan on issuing separate guidance on organizing and submitting clinical data. Until that
692 guidance has been finalized, you should follow the recommendations in the pre-existing
693 guidance for industry *Providing Regulatory Submissions in Electronic Format – NDA* regarding
694 the submission of clinical data.

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5. *Periodic safety update reports*

To facilitate electronic submissions, we have divided the postmarketing periodic adverse drug experience report into three parts: (1) individual case safety reports (ICSRs), (2) ICSR attachments, if applicable, and (3) descriptive information. The descriptive information includes the narrative summary and analysis of the information in the report (i.e., periodic ICSRs and ICSR attachments), an analysis of the 15-day alert reports submitted during the reporting interval (i.e., expedited ICSRs and ICSR attachments), and the history of actions taken since the last report because of adverse drug experiences (e.g., labeling changes, studies initiated) as described in 21 CFR 314.80(c)(2)(ii)(a) and (c) and 600.80(c)(2)(ii)(A) and (C)). You should supply the descriptive information as an individual PDF file. You should provide bookmarks to each of the sections and subsections of this report. ICSR and ICSR attachments should be provided as described in the guidance for industry *Providing Regulatory Submissions in Electronic Format – Post-marketing Periodic Adverse Drug Experience Reports*.

6. *Literature references*

You should provide each literature references as an individual PDF file. The filenames should be short and meaningful.

IV. UTILITY FOLDER

You should create two folders, *dtd* and *style* and place them in the *util* folder.

A. Document Type Definition Folder

Place the document type definition (DTD) that you used to create the eCTD backbone file (regional.xml) and the DTD you used to create the FDA Regional eCTD backbone file (us-index.xml) in the folder named *dtd*. You should use the most recent DTD.¹¹

B. Style and PDF Index Folder

You should use the most recent stylesheet. See the guidance for industry *M2 eCTD: Electronic Common Technical Document Specification*.

¹¹ See the FDA Web site at <http://www.fda.gov/cder/regulatory/ersr/>.