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GRx+Biosims[™]

Generic + Biosimilar Medicines Conference

Electronic Submissions: eCTD Update

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Project Management Officer, DDMSS, OBI, OSP, CDER, FDA







- Background
- Metrics
- Challenges
- ✤ FAQ



ECTD Background





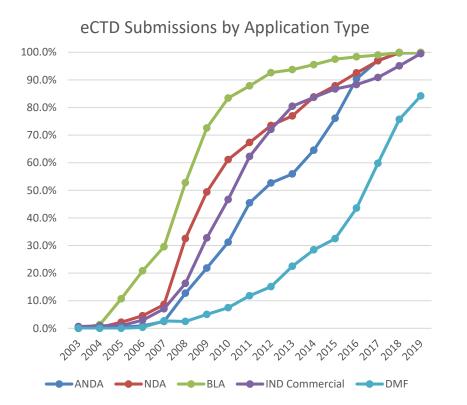
- The number of submissions to the FDA has significantly increased
- eCTD guidance became binding:
 - ✓ May 5, 2017: NDA, BLA, and ANDA must be in eCTD format
 - ✓ May 5, 2018: Commercial IND and Master Files must be in eCTD format
 - ✓ See latest version of guidance at <u>www.fda.gov/ectd</u>



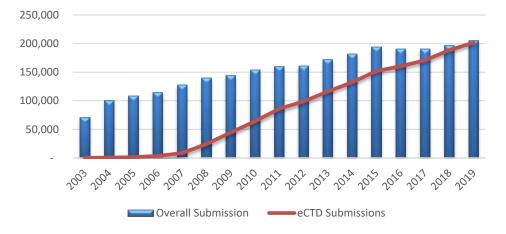
*excludes promotional/advertising

CURRENT STATE: RECEIVED SUBMISSIONS

CDER received approximately 205,000* electronic submissions via ESG in FY19. Nearly 202,000 were in eCTD in FY 2019.



Comparison: Overall Submissions vs. eCTD Submissions



In FY19, 99% of the regulatory submissions (specific to Commercial INDs, NDAs, ANDAs, BLAs, DMFs Type II, IV and V) were submitted in eCTD format



CDER SUBMISSION PROCESSING

Automate process to identify Submission Category

Process:

- Determine Submission Category based on structured data in eCTD sequence
- 2. Route to Review Division based on Submission Category

Benefit:

- 1. Reviewers see submission sooner
- 2. Reduced manual data entry

Document Room continues to process submissions where category cannot be determined automatically and submissions which contain high validation errors



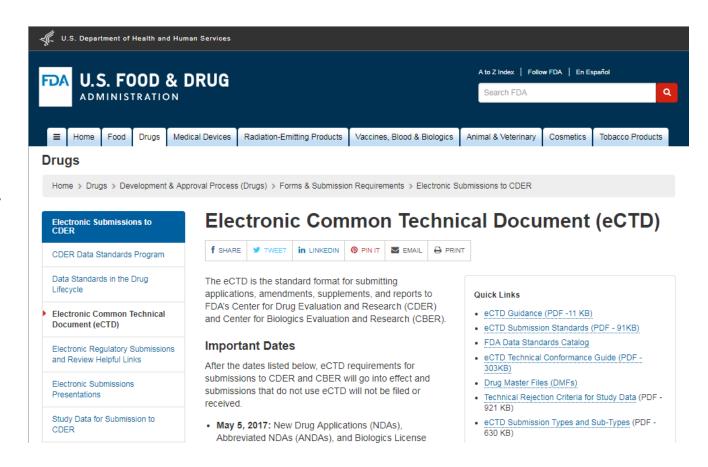




- To efficiently and effectively process the increased number of submissions and leverage the submitted structured eCTD and study data, FDA is in the process of automating inbound submissions by using structured data from the eCTD backbone files and Form 356h. However, data submitted in eCTD backbone files (e.g. us-regional.xml file) and regulatory form (e.g., Form 356h) are not always consistent.
- FDA reviewers use the state-of-the-art review tools (e.g. JMP Clinical) to support analyzing submitted study data. However, study data submitted do not always conform with the published FDA Data Standards Catalog.

ECTD BACKBONE FILES SPECIFICATION

The eCTD Backbone Files Specification for Module 1 explains how to build regulatory activities using M1 elements and attributes such as submission-type, submission-id and submission-sub-type (if DTD version 3.3)



ECTD DATA DISCREPANCY EXAMPLE 1:

Can you guess the correct regulatory activity in this submission?

😥 us-regional.xml (DTD V2.01)	
<pre><submission application"<="" original="" submission-type="original-appli
<sequence-number>0022</sequence-number></pre></th><th>cation</th></tr><tr><th></submission></th><th>Indicating " th=""></submission></pre>	
Form 356h	
	Supplement 🔲 Efficacy Supplement 🔲 Annual Report
Product Correspondence REMS Supplement Postmarketing Re	equirements or Commitments
Request for Proprietary Name Review Other (Specify):	
Indicating "Periodic Safety Repo	ort"

This submission was a periodic safety report.

The appropriate eCTD "submission-type" would have been "other".

ECTD DATA DISCREPANCY EXAMPLE 2:



<subr <se <re< th=""><th>cation-informanission submis equence-number elated-sequence omission></th><th>sion-type="</th><th>amendment</th><th></th><th>ng "Amendment"</th></re<></se </subr 	cation-informanission submis equence-number elated-sequence omission>	sion-type="	amendment		ng "Amendment"
<th>cation-inform</th> <th>ation></th> <th></th> <th></th> <th></th>	cation-inform	ation>			
Form 356	Sh		Inc	licating "Initia	l Submission"
21. Submission	See Origina	EMS Supplement	plement CMC Supplemen	nt 🔲 Efficacy Suppl	I Submission" lement Annual Report Periodic Safety Report

This submission was an amendment containing patent information. The appropriate "Submission Sub-Type" on Form 356h would have been "Amendment"

ECTD DATA DISCREPANCY EXAMPLE 3:

Can you guess the correct regulatory activity in this submission?



us-regional.xml (DTD V2.01)

<application-information application-type="ind" <submission submission-type="chemistry-manufacturing-controls-supplement">



Form 1571

11. This submission contains the following (Select all that apply) Initial Investigational New Drug Application (IND) Response to Clinical Hold Response To FDA Request For Information Request For Reactivation Or Reinstatement General Correspondence Annual Report Development Safety Update Report (DSUR) Other (Specify): Protocol Amendment(s) **Request for** IND Safety Report(s) Information Amendment(s) Chemistry/Microbiology New Protocol Human Factors Meetina Initial Written Report Protocol Change in Protocol Pharmacology/Toxicology Proprietary Name Review Follow-up to a Written Report Clinical/Safety Statistics Special Protocol Assessment New Investigator PMR/PMC Protocol Clinical Pharmacology Formal Dispute Resolution

Indicating "Chemistry/Microbiology Information Amendment"

Indicating "Chemistry-Manufacturing-Controls-Supplement"

This submission was an amendment to Original submission. The appropriate eCTD "submission-type" would have been "Amendment".



When data is submitted correctly in eCTD backbone files (e.g. usregional.xml file) and regulatory form (e.g., Form 356h), submission can be efficiently routed to the assigned review division and/or reviewer(s)

Indicating different Submission Type and/or Submission Sub-Type in usregional.xml and Form 356h could:

- Impact FDA's ability to automate the submission process
- Require addition effort to read the Cover Letter in order to resolve the discrepancy
- May require Request(s) for Information that may otherwise not be necessary



Submit BE Site Information



- Current Challenges
 - Key components of BE site information is missing (name & address)
 - > BE sites appear in various formats (Tables, Study Reports, etc.)
 - BE sites not consistently placed in the correct location of the eCTD submission
- Implication
 - Potential delayed issuance of an action letter due to misplaced or missing BE sites and relevant information.

To improve the access to quality data.



- Submit a complete list of
 all BE sites on Table 10 –
 Study Information
- Place BE Summary Tables in section 2.7.1 of the eCTD

Additional information about the ANDA submissions is available on the ANDA Forms and Submission Requirements Web page located at <u>https://www.fda.gov/Drugs/DevelopmentApprovalProcess/HowDrugsareDevelopedandAppr</u>

oved/ApprovalApplications/AbbreviatedNewDrugApplicationANDAGenerics/ucm120955.htm

TABLE 10 – BE STUDY INFORMATION

Table 10 Study Information ⁹							
							1
Study Number				-	Permeability	Other	+
	In Vivo I	BE	In Vitro B	E			1
Study Type	111 111						
Submission Location:	location, e	x 5.3.	1.2				
Study Report	location, e	x 53	1.2				
Validation Report	location, e	w 53	1.4				_
Bioanalytical Report	location,	C					
Clinical Site							
(Name, Address, Phone #,							
Fax#) Principal Clinical							
Principal Children							\neg
Investigator							
(Name, Email)							
Analytical Site							
(Name, Address, Phone #,							-
Fax#)							
Principal Analytical							-1
Investigator							
(Name, Email)							
Sample Storage:							1
(a) Duration (no. of us							
(a) Durathe first day	01						1
sample collection t							1
the last day of sam	ipre						1
analysis)							
(b) Temperature Ran	ige						
(a.g., -20°C to -50		ialyte l					
Long-Term Storage Stabi		1.44	o. (if applicat	ole)			
(LTSS) Coverage (no. da	ys @	the first			1 - the	upper limit of the st	orage
temp °C)		ato: Tl	he LTSS shou	ıld be (conducted at the	upper limit of the sto	
			tange.			and data, H	ICI GOLDED
	te	monify	the exact loc	ation (of the LTSS study	y reports and data, ir Provide hyperlink(s)) to the
LTSS Data Location	5	fedule	Section, Su	bsectio	on, and page(s).	101100	
	1	laastic	ns as appropr	iate.			
		ocado					Mo

Provide a separate table for each bioequivalence study.

Model Bioequivalence Data Summary Tables (PDF - 185KB)

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TABLE 10 – BE STUDY INFORMATION EXAMPLES



In Vitro BE Analytical Site

Study Number	XYZ.123.000		
Study Title	In Vitro Test for XYZ Tablets for 500 mg strength		
Study Type	In Vivo BE In Vitro BE Permeability Other		
Submission Location:			
Study Report	location, ex: 5.3.1.2		
Validation Report	location, ex: 5.3.1.2		
Bioanalytical Report	location, ex: 5.3.1.4		
	,		
Clinical Site			
(Name, Address, Phone #,	N/A		
Fax#)			
Principal Clinical			
Investigator	N/A		
(Name, Email)			
Analytical Site	ABC Analytical		
(Name, Address, Phone #,	789 Park Rd., New York, NY USA 50000		
Fax#)	Telephone: 555-555-5555		
	Fax: 999-999-9999		
Principal Analytical	Jane Doe		
Investigator	Janedoe@abcanalytical.com		
(Name, Email)			
Sample Storage:	a = 20 days		
(a) Duration (no. of days	a) 20 days		
from the first day of			
sample collection to			
the last day of sample	b) -20°C		
analysis)			
(b) Temperature Range			
(e.g., -20°C to -80°C)			
Long-Term Storage Stability	Analyte 1:		
(LTSS) Coverage (no. days @	Analyte 2: (if applicable)		
temp °C)			
	Note: The LTSS should be conducted at the upper limit of the storage		
	temperature range.		
LTSS Data Location	Specify the exact location of the LTSS study reports and data, including		
	Module, Section, Subsection, and page(s). Provide hyperlink(s) to the		
	locations as appropriate.		

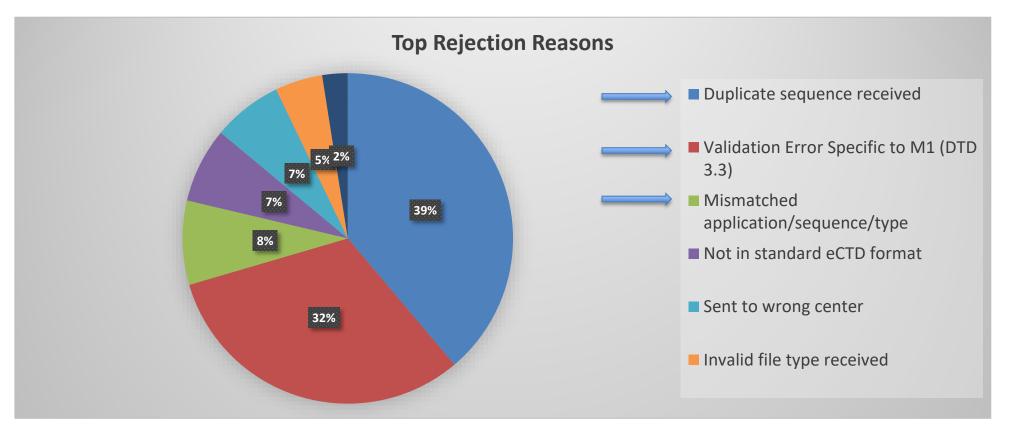
In Vivo BE Clinical and Analytical Sites

Study Number	ABC.789.000		
Study Title	Fasting Bioequivalence Study of 500 mg ABC Capsules		
Study Type	X In Vivo BE In Vitro BE Permeability Other		
Submission Location:			
Study Report	location, ex: 5.3.1.2		
Validation Report	location, ex: 5.3.1.2		
Bioanalytical Report	location, ex: 5.3.1.4		
Clinical Site	ABC Clinical 123 Main St., New York, NY USA 50000		
(Name, Address, Phone #,	123 Main St., New York, NY USA 50000 Telephone: 555-555-5555		
Fax#)	Fax: 999-999-9999		
Principal Clinical	John Doe		
Investigator	Johndoe@abcclinical.com		
(Name, Email)			
Analytical Site	ABC Analytical		
(Name, Address, Phone #,	789 Park Rd., New York, NY USA 50000		
Fax#)	Telephone: 555-555-5555		
	Fax: 999-999-9999		
Principal Analytical	Jane Doe		
Investigator	Janedoe@abcanalytical.com		
(Name, Email)			
Sample Storage:	a) 20 days		
(a) Duration (no. of days	u, 20 uuy5		
from the first day of			
sample collection to	b) -20°C		
the last day of sample			
analysis)			
(b) Temperature Range			
(e.g., -20°C to -80°C)			
Long-Term Storage Stability	Analyte 1:		
(LTSS) Coverage (no. days @	Analyte 2: (if applicable)		
temp °C)			
	Note: The LTSS should be conducted at the upper limit of the storage		
	temperature range.		
LTSS Data Location	Specify the exact location of the LTSS study reports and data, including		
	Module, Section, Subsection, and page(s). Provide hyperlink(s) to the		
	locations as appropriate.		



Top 3 Rejections and How to Avoid Them

- Overall, under 2% rejected in FY2019
- A closer look at the 3 most common rejections for eCTD NDA, BLA, IND, MF, ANDA (FY 2019)



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1. Duplicate Sequence Number Received

Issue	Resolution
Submitting revised content under same sequence number (e.g. trying to swap out a sequence)	Content should be updated by submitting changes in the next available sequence
Transfer of application but new owner is not aware of sequence numbers used	Recommend obtaining full sequence history from prior owner
Re-using a sequence number if submission has been withdrawn	Even if a submission is withdrawn, FDA continues to keep the sequence



2. Most Common M1 (DTD 3.3) Mistake

lssue

Validation Code 2022: You have used a submission-sub-type which is not allowed for the submission-type and/or type of application.

Ex: Original Application/Correspondence

Resolution

See list of valid **Submission Type** and **Sub-Type** combinations. <u>Resource: eCTD Backbone Files</u> <u>Specifications for Module 1, Table 2:</u> Submission Types and Descriptions of Use

Table 2: Submission Types and Descriptions of Use

Submission Type	Submission Sub-Type	Supplement Effective Date Type (if applicable and <i>submission-sub-type</i> = "application")	Valid For Application Types
Original Application	Presubmission Application Amendment Resubmission		IND, NDA, ANDA, BLA, DMF, EUA
Efficacy Supplement	Presubmission		NDA, BLA
	Application	Prior Approval Supplement (PAS)	
	Amendment Resubmission		
Chemistry Manufacturing	Presubmission		NDA, ANDA, BLA
Controls Supplement	Application	Prior Approval Supplement (PAS), Changes Being Effected (CBE-0), or Changes Being Effected 30 (CBE-30)	
	Amendment Resubmission		
Labeling Supplement	Presubmission		NDA, ANDA, BLA
	Application	Prior Approval Supplement (PAS) or Changes Being Effected (CBE-0)	
Annual Report	Report Amendment		IND, NDA, ANDA, BLA, DMF
Product	Correspondence		IND, NDA, ANDA,
Correspondence	Amendment		BLA, DMF



3. Mismatched Application/Sequence/Type

Issue	Resolution
The Sequence Number specified in the US-Regional file does not match the Sequence Number Folder	Main submission folder must be named using a four-digit sequence number; Same number must be used in usregional.xml file
The application number specified in the US-Regional file does not match the Application Number in the fillable form (356h/1571)	Prior to submitting, confirm application number in usregional.xml file matches number on 356h/1571 form
The application type specified in the US-Regional file does not match the application type in the fillable form	Prior to submitting, confirm application type in usregional.xml file matches type on 356h/1571 form



Frequently Asked Questions

FREQUENTLY ASKED QUESTIONS



Where do I place my content?

Resources:

 ✓ <u>The Comprehensive</u> <u>Table of Contents</u> <u>Headings and Hierarchy</u> The Comprehensive Table of Contents Headings and Hierarchy

Module 1 Administrative information 1.1 Forms Form [form-type] 1.2 Cover letters 1.3 Administrative information 1.3.1 Contact/sponsor/applicant information 1.3.1.1 Change of address or corporate name 1.3.1.2 Change in contact/agent 1.3.1.3 Change in sponsor 1.3.1.4 Transfer of obligation 1.3.1.5 Change in ownership of an application or reissuance of license 1.3.2 Field copy certification 1.3.3 Debarment certification 1.3.4 Financial certification and disclosure 1.3.5 Patent and exclusivity 1.3.5.1 Patent information 1.3.5.2 Patent certification 1.3.5.3 Exclusivity claim 1.3.6 Tropical disease priority review voucher

- ✓ <u>M4 Organization of the Common Technical Document for the</u> <u>Registration of Pharmaceuticals for Human Use Guidance for Industry</u>
- ✓ FDA Regulatory Project Manager

FREQUENTLY ASKED QUESTIONS

- How do I get started with eCTD?
- How do request an application number?
- How do I get a gateway account?

These questions and more are answered on the eCTD website:

Electronic Common Technical Document (eCTD)

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The eCTD is the standard format for submitting applications, amendments, supplements, and reports to FDA's Center for Drug Evaluation and Research (CDER) and Center for Biologics Evaluation and Research (CBER).

Important Dates

After the dates listed below, eCTD requirements for submissions to CDER and CBER will go into effect and submissions that do not use eCTD will not be filed or received.

- May 5, 2017: New Drug Applications (NDAs), Abbreviated NDAs (ANDAs), and Biologics License Applications (BLAs), must be submitted using eCTD format.
- May 5, 2018: Commercial Investigational New Drug Applications (INDs) and Master Files must be submitted using eCTD format.
- Please refer to the <u>eCTD Guidance</u> for the complete details to meet the eCTD requirement.

Visit our <u>Submit Using eCTD</u> page to learn how to submit an application using eCTD and obtain an ESG account. To view all eCTD Submission Resources, visit our <u>eCTD Resources</u> page

Quick Links

- eCTD Guidance (PDF -11 KB)
- eCTD Submission Standards (PDF 91KB)
- FDA Data Standards Catalog
- eCTD Technical Conformance Guide (PDF -303KB)
- Drug Master Files (DMFs)
- <u>Technical Rejection Criteria for Study Data</u> (PDF -921 KB)
- <u>eCTD Submission Types and Sub-Types</u> (PDF 630 KB) NEW

Notices

- FDA Extends Compliance Date for DMF Type III in eCTD Format NEW
- <u>Third Acknowledgement for Successful eCTD</u> Submissions (May 2016)
- Past Notices

Submit Using eCTD

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When submissions arrive in eCTD format, reviewers can easily find and access the information they need to review, whether it was part of the original submission or added later by the product sponsor.

Electronic submissions make it easier for FDA to review data, approve new drugs, and monitor drugs after they go on the market. Using eCTD also simplifies the process for submitters, because it is the same format used by drug regulatory agencies in other countries. If you are new to eCTD, follow these steps to get started:

Learn about eCTD

Review the Electronic Submission Resources Submit Fillable Forms and Compliant PDFs Request an Application Number Register for an Electronic Submissions Gateway Account Send a Sample Submission to FDA Submit Via the Electronic Submission Gateway

1. Learn About eCTD

- NEW eCTD Submission Requirements: What You Need to Know fact sheet (PDF 224KB)
- Recent eCTD presentations by FDA staff
- CDER Small Business and Industry Assistance (CDER SBIA) Webinar Electronic Submission Requirements for ANDAs: Are You Ready? – November 21, 2016

Tip: Build and maintain a knowledge base by staying informed about existing, new, and updated eCTD-related tools and information.



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THANK YOU

