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Study Data Technical Rejection Criteria, Validation, and Self-Check Worksheet

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Agenda



- FDA Guidance and Data Standards Catalog
- Revised Technical Rejection Criteria for Study Data
- Study Data Technical Rejection Criteria Conformance Trend
- o Technical Rejection Criteria Validation Process
- Typical Error Examples and Demo of the Self-Check Worksheet
- o Implementation Timeline

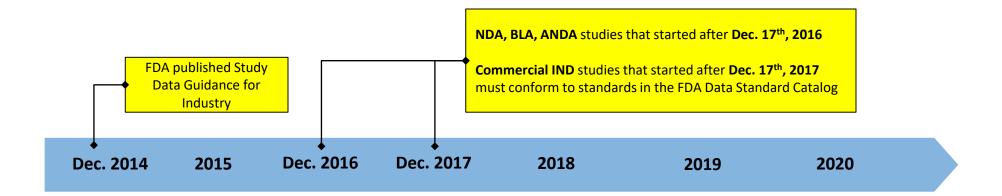


FDA Guidance and Data Standards Catalog

FDA Guidance and Data Standards Catalog



- Per FD&C Act Section 745A(a), drug application sponsors must use the standards defined in the FDA Data Standards Catalog starting 24 months after final guidance for a specific submission type.
- FDA issued "Providing Regulatory Submissions in Electronic Format Standardized Study Data: Guidance for Industry" in December 2014.
- Sponsors must conform to standards in the FDA Data Standards Catalog:
 - NDA, BLA, ANDA studies that started after December 17th, 2016
 - Commercial IND studies started after December 17th, 2017

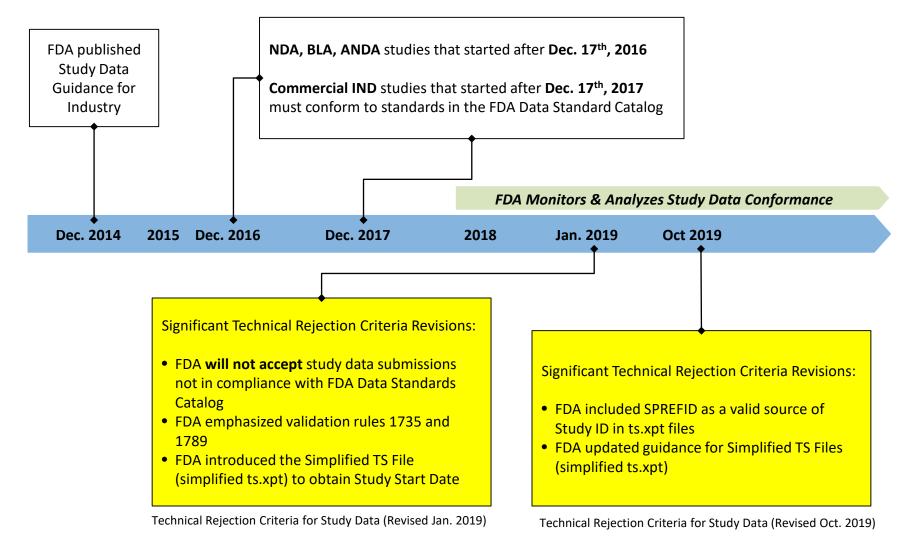




Revised Technical Rejection Criteria for Study Data









Study Data Technical Rejection Criteria (SDTRC) Revisions (Jan. 2019)

Refuse to file → Will not accept

The FDA may refuse to file (RTF) for NDAs and BLAs, or refuse to receive (RTR) for ANDAs, an electronic submission that does not have study data in conformance to the required standards specified in the FDA Data Standards Catalog

FDA will not accept an electronic submission that does not have study data in compliance with the required standards specified in the FDA Data Standards Catalog

Revised TRC rules and elevated 1735 and 1789 to high severity errors

Error	Description	Severity
1734	Trial Summary (TS) dataset (ts.xpt) with information on study start date must be present for required sections*	High
<mark>1735</mark>	Correct STF file-tags must be used for all standardized datasets and corresponding define.xml files in required sections*	High
1736	For SEND data, a DM dataset and define xml must be submitted in required sections* For SDTM data, a DM dataset and define.xml must be submitted in required sections* For ADaM data, an ADSL dataset and define.xml must be submitted in required sections*	High
1789**	Study files must be referenced in a Study Tagging File (STF)	<mark>High</mark>



Study Data Technical Rejection Criteria (SDTRC) Revisions (Oct. 2019)

Introduced the Simplified TS File (simplified ts.xpt) and TSVALNF

For a study without a valid SSD:

STUDYID	TSPARMCD	TSVAL	TSVALNF
study ID in STF	SSTDTC		Use the value 'NA'

Included SPREFID for Study ID matching

If a file is referenced within a study section in Module 4 or 5, a STF and ts.xpt must be present to identify the study ID and SSD to which the file belongs. The ts.xpt and STF need to contain matching study ID values.

If a file is referenced within a study section in Module 4 or 5, a STF and ts.xpt must be present to identify the study ID and SSD to which the file belongs. The ts.xpt needs to contain either a study ID (STUDYID) or Sponsor Reference ID (SPREFID) value that matches with the STF study ID.





Example in Revised TRC -SPREFID for Study ID matching

A study in standardized format is submitted to FDA and the study files are referenced in a STF, a ts.xpt dataset is included in the study. The SPREFID in the ts.xpt dataset matches the study ID (study-id) in the STF. The Study Start Date in the ts.xpt is in SDTM or SEND format and the study begins after December 17, 2016, for NDAs, BLAs, and ANDAs (or December 17, 2017, for Commercial INDs).

- ❖ Additional parameter in the ts.xpt for matching study id with STF study id to pass validation 1734
 - The SPREFID parameter allows for an alternate way for Sponsors provide a matching study id
 - Multiple SPREFID values are allowed in the ts.xpt



Study Data Technical Rejection Criteria Conformance Trend



1734 and 1736 Error Rate Comparison - Commercial IND's and NDA's in Module 4

IND Submissions with study data shows improvement in the 1734 Validation Error Rate but have a slight increase in Error Rate for Validation Errors 1736



Notes:



CDER Conformance: Study Level Validation Errors 1734, 1735 & 1736

Commercial IND's and NDA's were assessed for conformance to three high-level error, 1734, 1735, & 1736, as defined in the SDTRC (Revised Jan. 2019)

		NDA	Co	mm-IND
	CY 2018	CY2019 (Q1-Q3)	CY 2018	CY2019 (Q1-Q3)
	m4	m4	m4	m4
Total Number of Submissions with Study Data	78	56	291	478
Total Number of Studies in the TRC Applicable Sections	403	313	883	1269
Total Number Studies with Critical Errors	39	46	105	215
Error 1734	33	32	65	84
Error 1735	6	13	36	119
Error 1736	1	1	11	36
Error Rate (% among failed studies with Study Data in TRC Applicable Sections)	10%	15%	12%	17%

Notes:

- 1) One drug application could contain multiple submissions throughout its review life-cycle, such as original, supplements, and amendments
- 2) Analysis includes NDA and Commercial IND submissions received by CDER between 1/1/2018 to 9/30/2019
- 3) Submission with multiple studies can report both Errors 1734, 1735 and 1736
- 4) Validation of errors 1735 and 1736 are not performed if a study has Error 1734
- 5) Analysis is conducted according to the revised TRC (Revised Jan. 2019)



CDER Conformance: SPREFID Analysis (CY2019 Q1-Q3)

❖ With SPREFID as a possible match to the STF study-id, the pass rate increases by 17.76% (Revised Oct. 2019)

	NDA m4	Comm-IND M4	Total
Total Number of non-clinical studies in TRC Applicable sections	313	1269	1582
TS File do not Exist	18	47	65
TS File Exist	295	1222	1517
STF Study ID matches with TS STUDYID	215	843	1058
STF Study ID does not matches with TS STUDYID	80	379	459
TS File contains SPREFID	78	320	398
TS file SPREFID Match	39	242	281
TS file SPREFID does not Match	39	78	117
Pass Rate without SPREFID	68.69%	66.43%	66.87%
Pass Rate with SPREFID	81.15%	85.50%	84.63%

Notes

1. Analysis includes NDA and Commercial IND non-clinical studies received by CDER between 1/1/2019 to 9/30/2019 (1582 studies)

CDER Conformance: SPREFID Analysis (CY2019 Q1-Q3) Summary



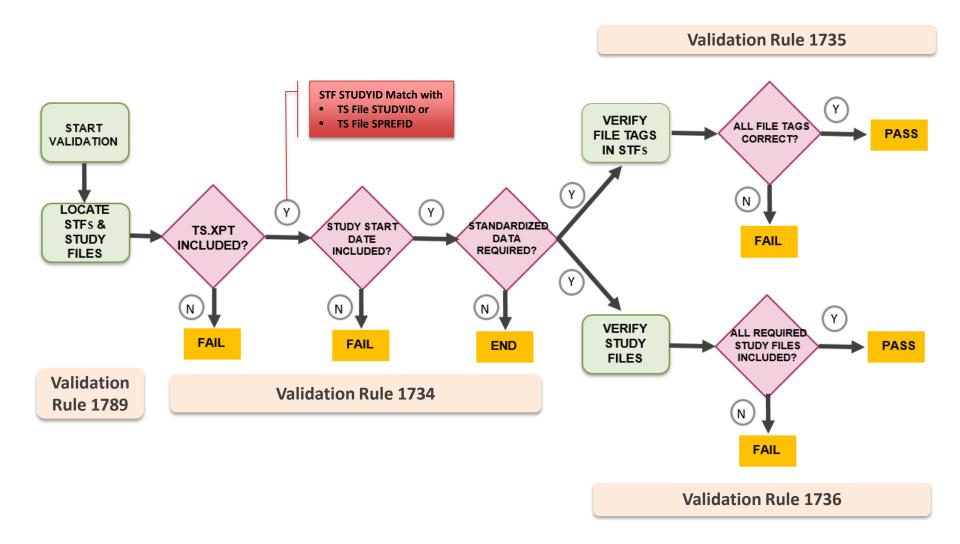
- ❖ Total number of non-clinical studies evaluated for NDA and Commercial IND = 1582 studies
- 4 66.9% Studies where Study ID in the ts.xpt file Match with STF study-id
- ❖ 29% Studies where Study ID in the ts.xpt file **Do Not Match** with STF study-id
 - > 25.2% Studies already contain SPREFID in the ts.xpt file
 - > 17.8% Studies where SPREFID in the ts.xpt file Match STF STUDYID
 - > 7.4% Studies where SPREFID in the ts.xpt file **Do Not** match STF STUDYID



Technical Rejection Criteria Validation Process

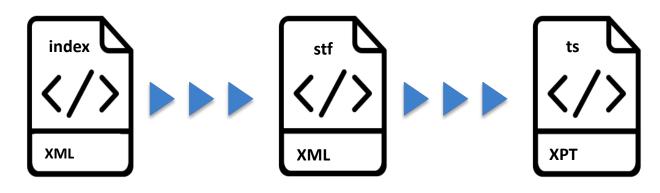






eCTD Backbone Files





- Leaf ID

File Path

- File Name

Leaf ID

STF Study ID

File-Tag

TS STUDYID

or SPREFID

Study Start Date

eCTD Backbone Files (index.xml)





```
<m4-2-3-1-single-dose-toxicity>
 <leaf checksum-type="MD5"</pre>
xlink:type="simple"
 checksum="421e55366d62fad0e9510f6aed005272" operation="new"
 xlink:href="m4/42-nonclin-stud-rep/423-tox/4231-single-dose-tox/study-s108/ts.xpt
 application-version="PDF 1.4"
                         INDEX LEAF ID
 ID="a101"
                                                    FILE PATH FROM INDEX
   <title>S108 ts.xpt</title>
 </leaf>
                                                                      FILE NAME FROM INDEX
<leaf checksum-type="MD5"</pre>
xlink:type="simple"
 checksum="25d3b246313a9dbf688a48da2295260e" operation="new"
xlink:href="m4/42-nonclin-stud-rep/423-tox/4231-single-dose-tox/study-s108/stf-s108.xml"
 version="stf version 2.2"
 ID="a104">
   <title>Study Tagging File for S108</title>
 </leaf>
</m4-2-3-1-single-dose-toxicity>
```

eCTD Backbone File (stf.xml)

FDA

- From Index.xml
 - Leaf ID
 - File Path
 - File Name



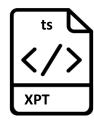
```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="../../../util/style/ich-stf-stylesheet.xsl"?>
<!DOCTYPE ectd:study SYSTEM "../../../util/dtd/ich-stf-v2-2.dtd">
<ectd:study xmlns:ectd="http://www.ich.org/ectd" xml:lang="en" dtd-version="2.2"</pre>
xmlns:xlink="http://www.w3.org/1999/xlink">
 <study-identifier>
<title>Wonderdrug Study S108</title>STF STUDY ID
<study-id>S108</study-id
<category name="type-of-control" info-type="ich">no-treatment</category>
 </study-identifier>
 <study-document>
                                                                   Index.xml LEAF ID
 <doc-content xlink:href="../../../../index.xml#a101</pre>
 kfile-tag name="data-tabulation-dataset-send" info type="ich"/>
 </doc-content>
 </study-document>
                          FILE TAG ASSOCIATED TO STUDY DOCUMENT
</ectd:study>
```

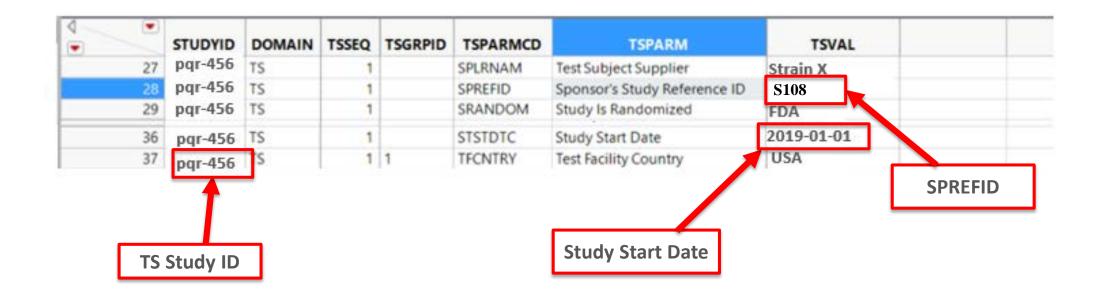
eCTD Backbone Files (Full ts.xpt)

FDA

- From Index.xml
 - Leaf ID
 - File Path
 - File Name

- From STF.xml
 - Leaf ID
 - STF Study ID
 - File-Tag



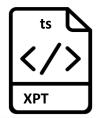


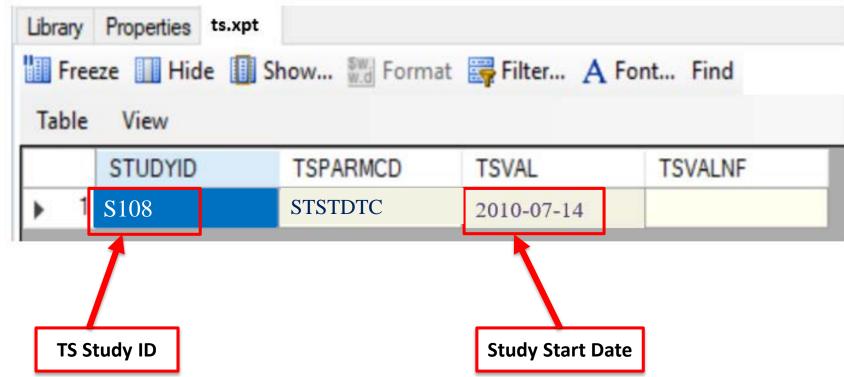
eCTD Backbone Files (Simplified ts.xpt)

FDA

- From Index.xml
 - Leaf ID
 - File Path
 - File Name

- From STF.xml
 - Leaf ID
 - STF Study ID
 - File-Tag







Typical Error Examples and Demo of the Self-Check Worksheet

Tools for Industry



FDA is developing tools and resources to help sponsors meet study data standard requirements and provide more transparency on the validation process







Sponsor reviews Study Data Standard Resources and Tools for Industry:

- Study Data Technical Rejection Criteria with eCTD Validation Table and Example Submission Scenarios
- Simplified TS File Generator Utility (PhUSE)
 OR
 Simplified TS File Creation Guide
- Study Data Self-Check Worksheet & Instructions







Gateway

Sponsor submits a eCTD and/or Standardized Data Sample to the FDA for validation

After review, FDA will provide with feedback, highlighting the errors found during the processing of the sample submission

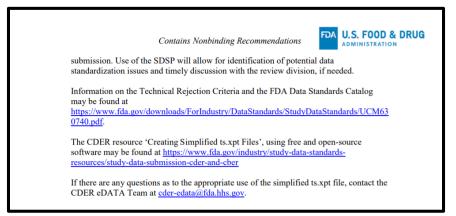
Sponsor submits an application with study data

FDA Tool - Simplified TS File Creation Guide

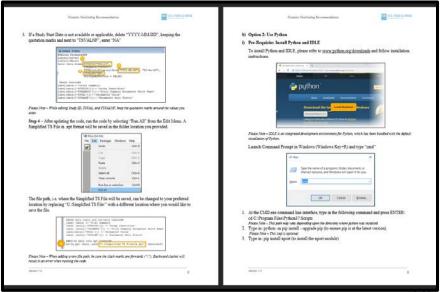
- ❖ Purpose The Simplified ts.xpt Creation Guide is a resource that FDA is providing industry to help create a simplified TS file using free and open-source software
 - \triangleright R
 - Python
- This Guide provides step by step instructions to install the necessary software to create and view the simplified ts.xpt file
- Users can simply copy paste the code from the guide to generate the simplified ts.xpt
- This guide is intended for users with non programming background to create the simplified ts.xpt with ease
- This link to this Guide will be available on the FDA's Web Page
 - <u>Study Data for Submission to CDER and CBER</u>



Study Data TCG (Oct 2019) references the Guide



Simplified TS File Creation Guide

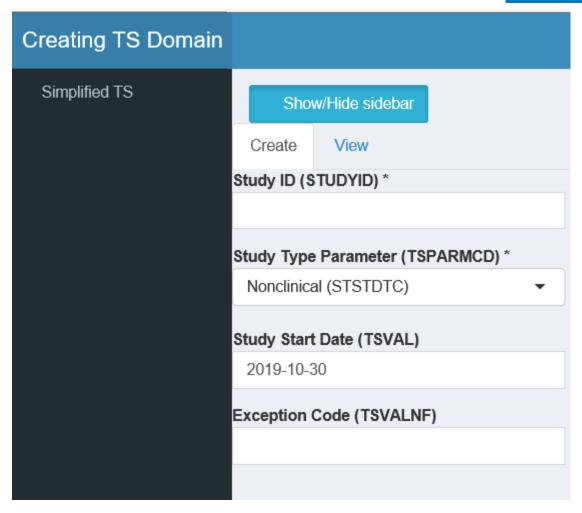


PhUSE Utility to Generate Simplified TS Files



- Purpose –PhUSE has developed a free web utility to generate a simplified TS
- This utility provides is an simple user interface to generate and view the simplified ts.xpt file
- Users can download the ts.xpt file after filling the necessary information on the web page like – Study ID, TSPARMCD,TSVAL and TSVALNF
- This link to this Guide will be available on the PhUSE Web Page —

https://geotiger.shinyapps.io/07_genTS/





How Many People are aware of Study Data Self-Check Worksheet?



How Many People use Study Data Self-Check Worksheet?

Self-Check Worksheet



Section	Contents
1	 Application & Submission Information Provides high level information about the application and submission
2	Study Information Provides more detailed information about the specific study
3	STF File Information (1789 Validation Error)Provide information about STF file

Reference:

"Technical Rejection Criteria Self-Check Worksheet"

https://www.fda.gov/media/123098/download
"Technical Rejection Criteria Self-Check Worksheet
Instructions"

https://www.fda.gov/media/123099/download

SELF-CHECK		Administration OR STUDY DATA bmissions of stud	A PREPARA	designed to help
prepare newly submitted study da	ta to FDA, i.e. studie:	s for which no file	s have been p	reviously submitted.
*Required Field Section 1: Application & Submis	sion Information			
			1	
1a. FDA Center* 1b. Application	BLA ANDA	Commercial INI		ion Number*
1d. eCTD Sequence Number	1e. eCTD Submission			nission Sub Type
ra. corp ocquence ramper	Te. corb odbinission	Турс	II. COTO CUDIT	ission out Type
Note: Repeat Sections 2 through	5 for each study in	cluded in the sub	mission.	
Section 2: Study Information				
2a. Study ID*				
za. Stady iS				
(Study ID is the unique identifier across	application documents. 7	herefore, the study l	D must be consi	stent across all the files
being submitted for the same study, i.e.	STF File, ts.xpt, dm.xpt,	etc.)		
2b. Is This the First Time Study Data is 8	Being Submitted for This	Study as Part of This	Application?*	
Yes No				
If you answered "No" in Field 2b, do not	proceed. This self-check	worksheet is design	ed for newly sub	omitted study data.
2c. Title of the Study		2d. Study Section -	eCTD Heading	(Example: m4-2-1-1)*
2- M-4-1-7		Of Charles Dataset T		
2e. Module* Nonclinical (m4) Clinical	l (m5)	2f. Study Dataset T Tabulation	ype(s). Analysis	Other
	i imai	Tabulation	Analysis	Other
Section 3: Study Information				
3a. Are Files Included in a Study Section	n? (Not Applicable to Sec	tions 4.3, 5.2, 5.3.6,	and 5.4)*	
Yes No				
If you answered "No" in Field 3a, and no			g sections 4.3, 5	5.2, 5.3.6, and 5.4, then
Validation Rules 1734, 1735, 1736, and	1789 do not apply. Do no	ot proceed.		
3b. Is STF File Included?* 3	c. Does STF File Refere	!! ^: 64		
[]		nce all Associated St	udy Files?"	Referenced Validation Error Number 1789
Yes No	Yes No			<u>Error realiser 1700</u>
If you answered "No" in Fields 3b or 3c	, Validation Rule 1789 FA	AILS. Do not proceed		
3d. Study ID in STF File*		3e. Does the Study	ID in the STF Fi	ile Match Field 2a?
		Yes No		
If you answered "No" in Field 3e, ensure	the study ID is consisten		being submitted	for the same study.
FORM FDA 4061 (05/19)	Page 1 of 3			PSC Publishing Services (301) 443-6740 EF

Self-Check Worksheet (1734 Validation Error)



Section	Contents
4	 TS File Information (1734 Validation Error) Provide information about ts.xpt file with study start date

Reference:

"Technical Rejection Criteria Self-Check Worksheet"

https://www.fda.gov/media/123098/download
"Technical Rejection Criteria Self-Check Worksheet Instructions"

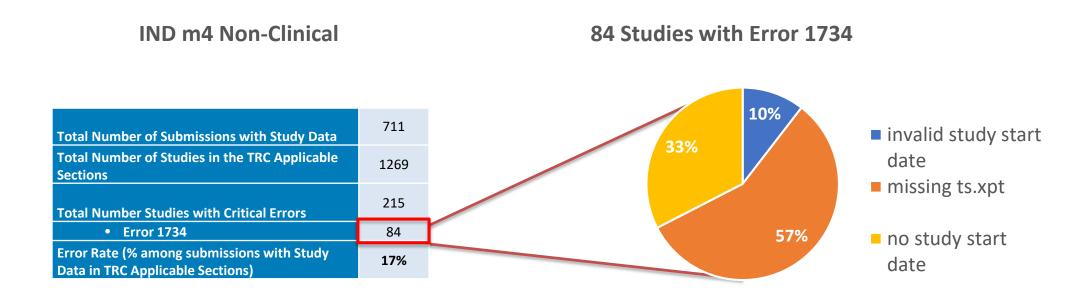
https://www.fda.gov/media/123099/download

Section 4: TS Fi							
4a. What Type of TS	S File is Required?* (<i>I</i>		elines in Require	•			
Study Start Date	Application Type	Data Typ	pe	Study Section	Required Type (by CDE	Center)	Required TS File Type (by Center) CBER
Prior to or on 17-Dec-16	NDA, BLA, or ANDA	Nonclinio	cal	4.2.3.1, 4.2.3.2, 4.2.3.4	Simplifie	d TS	Not Required
Prior to or on 17-Dec-16	NDA, BLA, or ANDA	Clinical	ı	5.3.1.1, 5.3.1.2, 5.3.3.1, 5.3.3.2, 5.3.3.3, 5.3.3.4, 5.3.4, 5.3.5.1, 5.3.5.2	Simplifie	ed TS	Simplified TS
Prior to or on 17-Dec-17	Commercial IND	Nonclinio	cal	4.2.3.1, 4.2.3.2, 4.2.3.4	Simplifie	d TS	Not Required
Prior to or on 17-Dec-17	Commercial IND	Clinical	1	5.3.1.1, 5.3.1.2, 5.3.3.1, 5.3.3.2, 5.3.3.3, 5.3.3.4, 5.3.4, 5.3.5.1, 5.3.5.2	Not Req	uired	Not Required
After 17-Dec-16	NDA, BLA, or ANDA	Nonclinio	al	4.2.3.1, 4.2.3.2, 4.2.3.4	Full 1	rs	Not Required
After 17-Dec-16	NDA, BLA, or ANDA	Clinical		5.3.1.1, 5.3.1.2, 5.3.3.1, 5.3.3.2, 5.3.3.3, 5.3.3.4, 5.3.4, 5.3.5.1, 5.3.5.2	Full 1	rs	Full TS
After 17-Dec-17	Commercial IND	Nonclinio	cal	4.2.3.1, 4.2.3.2, 4.2.3.4	Full 1	ΓS	Not Required
After 17-Dec-17	Commercial IND	Clinical		5.3.1.1, 5.3.1.2, 5.3.3.1, 5.3.3.2, 5.3.3.3, 5.3.3.4, 5.3.4, 5.3.5.1, 5.3.5.2	Not Req	uired	Not Required
If you answered "No	ot Required" in Field 4	a, then Valid	ation Ru	ules 1734, 1735, and 1736 d	io not apply.	Do not p	proceed.
4b. Is TS File Includ	led?*						enced Validation Number 1734
If you answered "No	" in Field 4b, Validati	on Rule 173	4 FAILS	. Do not proceed.			
4c. Study ID in TS F	île*						
4d. Does Study ID in	n STF (Field 3d) & TS	Files Match	?				renced Validation Number 1734
If you answered "No	o" in Field 4d, Validati	on Rule 173	4 FAILS	. Do not proceed.			
4e. Study Start Date	e in TS File		_	itudy Start Date Exists, Is it	Valid?		enced Validation Number 1734
4g. If Study Start Da	ite does not Exist, Wh	at is the Sta	Ye ted Exce				TOMOCI TIO
		ield 4e and p	you do r	not have a stated Exception	Code in Fiel	d 4g, Va	alidation Rule
1734 FAILS. Do not Or, if you answered	proceed. "No" in Field 4f, Valid	ation Rule 1	734 FAI	LS. Do not proceed.			

CY2019 (Q1-Q3) CDER Error Reasons for IND Non-Clinical studies- Validation Rule 1734

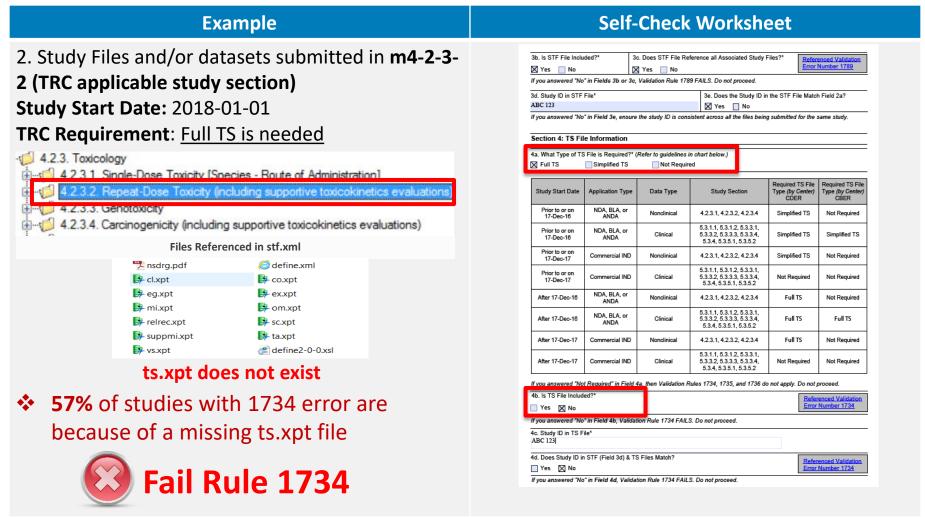


- ❖ A dataset named ts.xpt with information on Study Start Date (SSD) must be present for each study
- Common error reason for Commercial INDs:
 - A missing ts.xpt file
 - A missing study start date in the ts.xpt



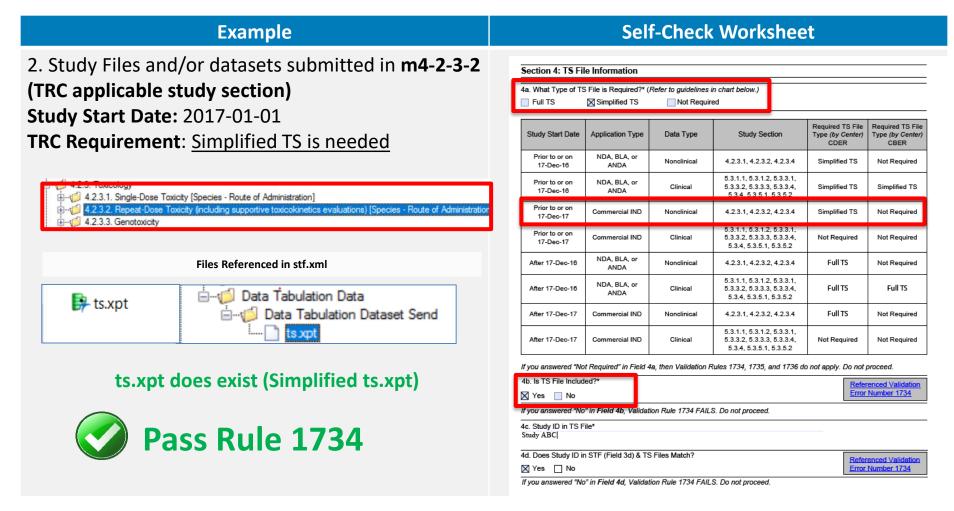
















Example	Self-Check Worksheet
2. Study Files and/or datasets submitted in m4-2-3-2 (TRC applicable study section) Study Start Date: 2018-01-01 TRC Requirement: Full TS is needed 4.2.3. Toxicology 4.2.3.1 Single-Dose Toxicity (Species - Boute of Administration) 4.2.3.2 Repeat-Dose Toxicity (including supportive toxicokinetics evaluations) (Species - Route of Administration) 4.2.3.3. Genotoxicity	Section 4: TS File Information 4a. What Type of TS File is Required 2* (Refer to cuidolines in chart helow.) Full TS 3d. Study ID in STF File* Study ABC Referenced Validation Error Number 1734 4b. Is TS File Included?* Yes No If you answered "No" in Field 4b " And 1734 FAILS. Do not proceed.
[Study IDs Match Requirement] Study IDs Match Requirement	4d. Does Study ID in STF (Field 3d) & TS Files Match? Yes No If you answered No in Field 4d, Validation Rule 1734 FAILS. Do not proceed. 4e. Study Start Date in TS File 4f. If Study Start Date Exists, Is it Valid? Yes No 4g. If Study Start Date does not Exist, What is the Stated Exception Code?





Example		Self-Check Worksheet
 Study Files and/or datasets submitted (TRC applicable study section) Study Start Date: 2018-01-01 TRC Requirement: Full TS is needed 	ed in m4-2-3 -	Section 4: TS File Information 4a. What Type of TS File is Required?* (Refer to guidelines in chart below.) Full TS Simplified TS Not Required
[Study Date Format Requirement] • yyyy-mm-dd TS.XPT		4b. Is TS File Included?* ☐ Yes ☐ No If you answered "No" in Field 4b, Validation Rule 1734 FAILS. Do not proceed. 4c. Study ID in TS File* Study ABC 4d. Does Study ID in STF (Field 3d) & TS Files Match? Referenced Validation Referenced Validation
SSTDTC Study Start Date 201	18-01-01	Yes No If you answered "No" in Field 4d, Validation Rule 1734 FAILS. Do not proceed.
Pass Rule 1734		4e. Study Start Date in TS File 2018-01-01 Tyes No Referenced Validation Error Number 1734 ** 10% of studies with 1734 error are because of invalid study start date





Section	Contents	
	Standardized Dataset Information	
	(1735 & 1736 Validation Error)	
5	Provide information about SEND or STDM	
	and/or ADaM dataset and define.xml	
	Provide information about STF File-tags	1

Reference:

"Technical Rejection Criteria Self-Check Worksheet"

https://www.fda.gov/media/123098/download
"Technical Rejection Criteria Self-Check Worksheet Instructions"

https://www.fda.gov/media/123099/download

section 5. Standardi	zed Datasets (SEND,	SDTM, ADaM)		
5a. Are Standardized Dat	asets Required?*			
	Study Start Date	Application Type	Standardized Dataset	5
	· ·		Required?	
P	rior to or on 17-Dec-16	NDA, BLA, or ANDA	Not Required	
<u> </u>	After 17-Dec-16	NDA, BLA, or ANDA	Required	
<u> </u>	rior to or on 17-Dec-17 After 17-Dec-17	Commercial IND Commercial IND	Not Required Required	_
If you answered "No" in Do not proceed.	Field 5a, standardized da	tasets are not required and	Validation Rules 1735 an	d 1736 do not apply.
Fields 5b-5e are applicat	ole to nonclinical tabulation	n datasets (SEND), Fields !	if-5i are applicable to clin	ical tabulation datasets
		l analysis datasets (ADaM).		
Note: For clinical data in (Commercial INDs standar	dized datasets are required	if the study start data is a	fter the date stated,
	nical rejection criteria will	not be applicable until furthe	r notice.	
Clinical (m5)				
Tabulation (SDTM datase	its)			
if. Is DM File Included?*	5g. Is Define File	Included?*		Referenced Validation
Yes No	Yes No			Error Number 1736
		Rule 1736 FAILS. Proceed		lidation Rule 1735.
Yes No	710. 1112 00 1111 001113213			
: I- #- CTF Fil- T 4	#- D-5 Fil- *4-4- 4-1-	J-1: J-1- J-5-1:01		Referenced Validation Error Number 1735
Yes No	r the Define File "data-tab	ulation-data-definition?"	L	
f you answered "No" in F	ields 5h or 5i, Validation	Rule 1735 FAILS.		
Analysis (ADaM datasets)			
		Included?*		
Analysis (ADaM datasets, 5j. Is ADSL File Included? Yes No				Referenced Validation Error Number 1736
5j. Is ADSL File Included? Yes No	7* 5k. Is Define File Yes No			Error Number 1736
5j. Is ADSL File Included? Yes No If you answered "No" in F	5k. Is Define File Yes No Fields 5j or 5k, Validation	Rule 1736 FAILS. Proceed		Error Number 1736
5j. Is ADSL File Included? Yes No If you answered "No" in F	7* 5k. Is Define File Yes No	Rule 1736 FAILS. Proceed	to Fields 51 and 5m for V	Error Number 1736 alidation Rule 1735.
5j, Is ADSL File Included? Yes No No If you answered "No" in F SI. Are the STF File-Tags Yes No	2* Sk. Is Define File Yes No Fields 5j or 5k, Validation for the ADaM Datasets *a	Rule 1736 FAILS. Proceed	to Fields 5I and 5m for V	Error Number 1736 alidation Rule 1735. Referenced Validation
5j, Is ADSL File Included? Yes No If you answered "No" in File. No No No No No No	5k. Is Define File Yes No Fields 5j or 5k, Validation	Rule 1736 FAILS. Proceed	to Fields 5I and 5m for V	Error Number 1736 alidation Rule 1735.
5j. Is ADSL File Included? Yes No If you answered "No" in F 5l. Are the STF File-Tags Yes No 5m. Is the STF File-tag fo	2" 5k. Is Define File Yes No	Rule 1736 FAILS. Proceed	to Fields 5I and 5m for V	Error Number 1736 alidation Rule 1735. Referenced Validation

Fillable Self-Check Worksheet



CY2019 (Q1-Q3) CDER Error Reasons for IND Non-Clinical studies- Validation Rule 1735

The correct STF file tags must be used for all standardized datasets and corresponding define.xml files

Common error reason for Commercial INDs:

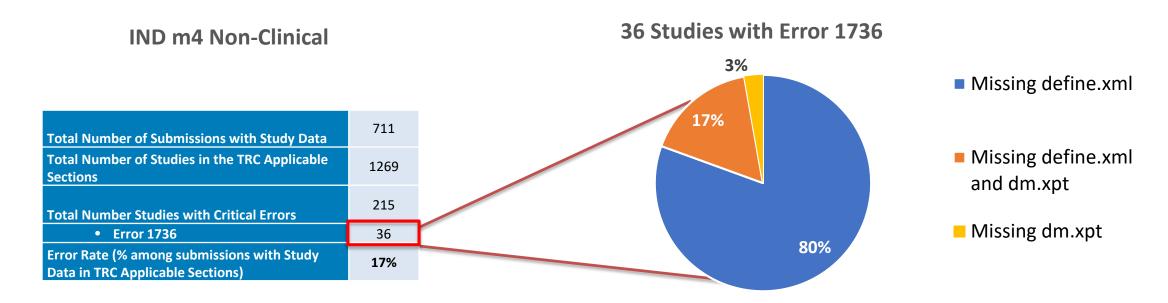
- An incorrect file tag for a define.xml file
- An incorrect file tag for a XPT file

IND m4 Non-Clinical 119 Studies with Error 1735 define 14% 711 **Total Number of Submissions with Study Data** xpt **Total Number of Studies in the TRC Applicable** 1269 **Sections** define, xpt & legacy 9% 215 **Total Number Studies with Critical Errors** 67% • Error 17345 119 xpt & legacy **Error Rate (% among submissions with Study** 17% Data in TRC Applicable Sections)

CY2019 (Q1-Q3) CDER Error Reasons for IND Non-Clinical studies- Validation Rule 1736



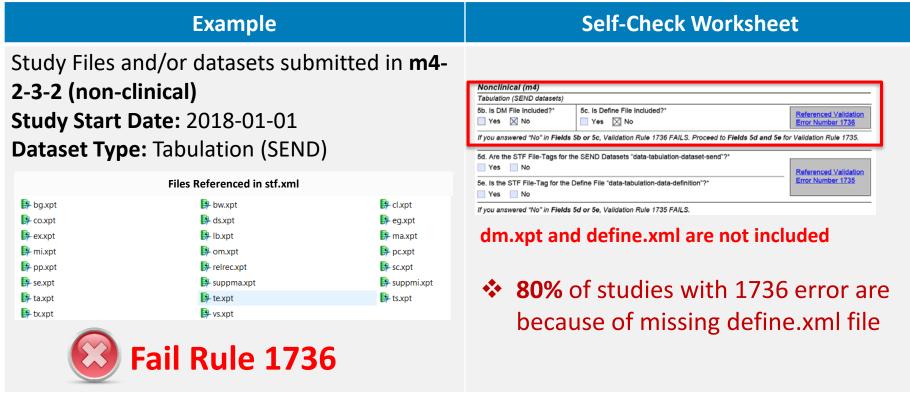
- For SEND data, a DM dataset and define.xml must be submitted
- For SDTM data, a DM dataset and define.xml must be submitted
- For ADaM data, an ADSL dataset and define.xml must be submitted
- Common error reason for Commercial INDs:
 - A missing define.xml files
 - A missing define.xml, dm.xpt files







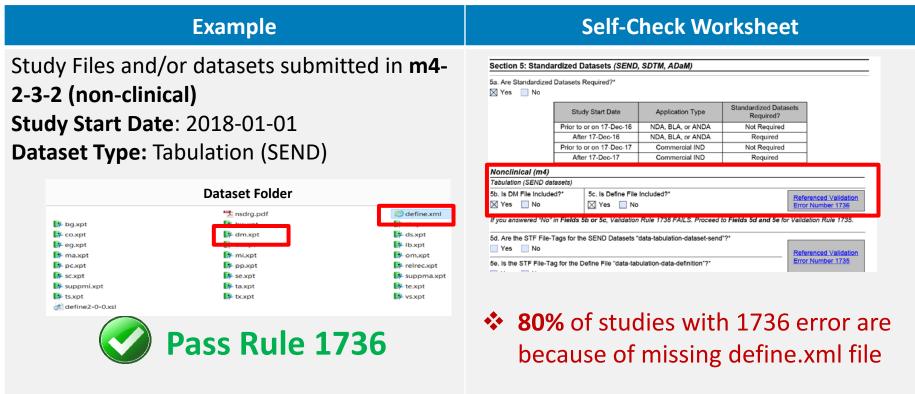
- Rule 1735: Correct STF file-tags must be used for all standardized datasets and corresponding define.xml files in required sections
- Rule 1736: For SEND data, a DM dataset and define xml must be submitted in required sections
 - For SDTM data, a DM dataset and define.xml must be submitted in required sections
 - For ADaM data, an ADSL dataset and define.xml must be submitted in required sections







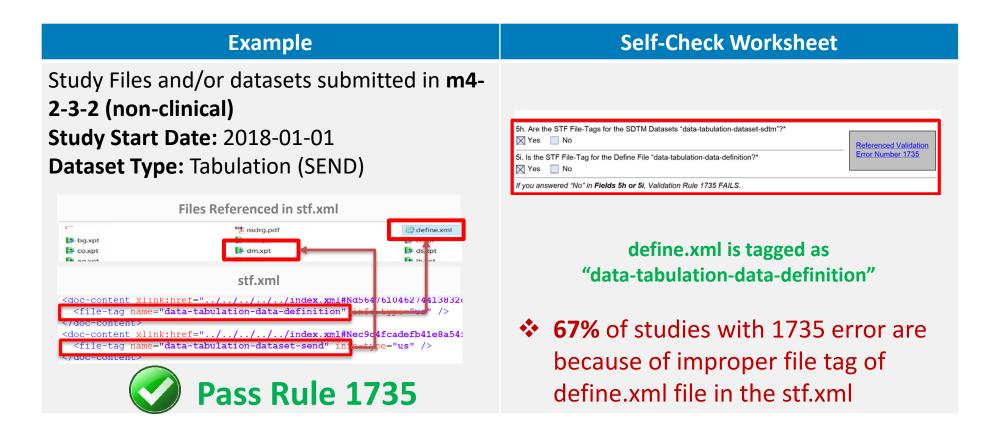
- Rule 1735: Correct STF file-tags must be used for all standardized datasets and corresponding define.xml files in required sections
- Rule 1736: For SEND data, a DM dataset and define xml must be submitted in required sections
 - For SDTM data, a DM dataset and define.xml must be submitted in required sections
 - For ADaM data, an ADSL dataset and define.xml must be submitted in required sections







- Rule 1735: Correct STF file-tags must be used for all standardized datasets and corresponding define.xml files in required sections
- Rule 1736: For SEND data, a DM dataset and define xml must be submitted in required sections
 - For SDTM data, a DM dataset and define.xml must be submitted in required sections
 - For ADaM data, an ADSL dataset and define.xml must be submitted in required sections



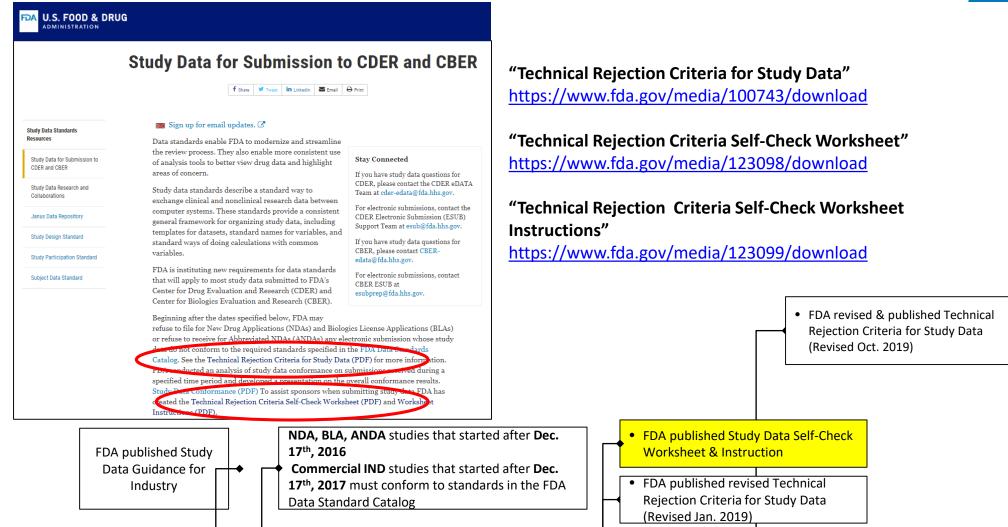
Published SDTRC and Self-Check Worksheet

Dec. 2014

Dec. 2016

2015





www.fda.gov 41

2018

Jan. 2019

Oct. 2019

Dec. 2017

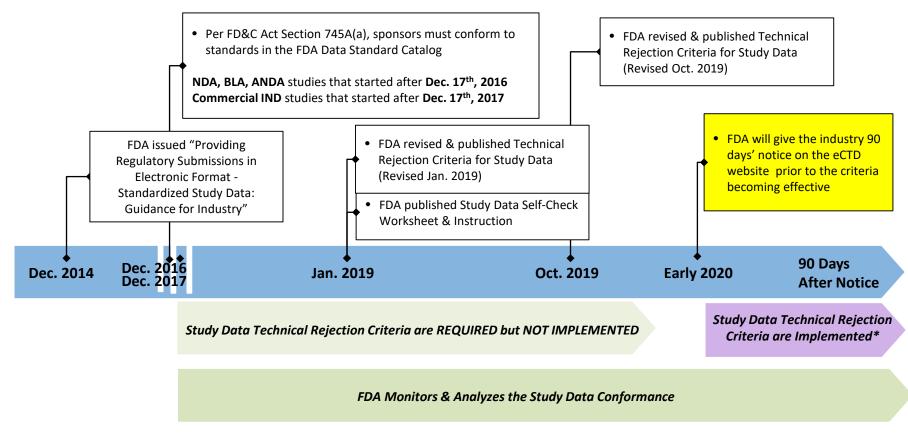


Implementation Timeline

Implementation Timeline



FDA published Revised Study Data Technical Rejection Criteria (Revised Oct. 2019) and Study Data Self-Check Worksheet to assist sponsors with the TRC Conformance



^{*} Note: When a submission is technically-rejected, the submission sequence is not transferred into the FDA electronic document rooms

Questions



- For questions about submitting study data please contact: edata@fda.hhs.gov
- For questions about eCTD, including stf.xml and file-tags, please contact: esub@fda.hhs.gov



Reference



- "Providing Regulatory Submissions In Electronic Format Standardized Study Data: Guidance For Industry" https://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM292334.pdf
- "Providing Regulatory Submissions In Electronic Format Submissions Under Section 745a(a) Of The FD&C Act: Guidance For Industry" https://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM384686.pdf
- "Technical Rejection Criteria For Study Data" https://www.fda.gov/media/100743/download
- "Study Data Technical Conformance Guide" https://www.fda.gov/media/88173/download
- "FDA Data Standards Catalog" https://www.fda.gov/ForIndustry/DataStandards/StudyDataStandards/default.htm
- "Technical Denunciation Criteria Self-Check Worksheet" https://www.fda.gov/media/123098/download
- "Technical Rejection Criteria Self-Check Worksheet Instructions" https://www.fda.gov/downloads/ForIndustry/DataStandards/StudyDataStandards/UCM630733.pdf
- For FDA instruction of Study Data submission, see the FDA "Study Data for Submission to CDER and CBER" https://www.fda.gov/industry/study-data-standards-resources/study-data-submission-cder-and-cber
- For the full list of Study Data standards, see the FDA "Study Data Standards Resources" http://www.fda.gov/ForIndustry/DataStandards/StudyDataStandards
- PhUSE utility for Simplified TS File Creation https://geotiger.shinyapps.io/07_genTS/

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