

TEXAS STUDENT DATA SYSTEM Field Coordination Network Update - Validation Tool

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AGENDA

I. Overview

- II. Download and Install
- **III.** File Preparation
- **IV. Validation Process**
- V. Tips, Troubleshooting, & Resources
- VI. Questions?



tsds TSDS High Level Process Map







- A standalone tool available to campuses, LEAs and ESCs to validate XML interchange files against TEDS standards before submitting them
- Designed to identify data errors prior to uploading TSDS data to the ODS, providing more time to work on extracts and data quality issues
- Checks the structure of the XML interchange files and performs some business rule checks





- To avoid installation problems, make sure:
 - You have access to the TSDS Portal
 - Your local system meets the minimum requirements to handle the download and installation (posted on the TSDS website at:

http://www.tea.state.tx.us/TSDS/Technical_Res ources/Technical_Contents/Validation_Tool/



.

Log in to the TSDS Portal using your TEAL user name and password, and select **Texas Student Data System Portal** from the list of applications

TEA Login (TE NOTICE: TEA Web Ap 2:00pm due to reutine period. You could lo	AL) ipications will not be svallable each Sunday m maintenance. Please do not access your appli se data.	ning from 5.00em to Sons during this time	
Don't have an account of the second sec	ount? Request New User Account	Agency	
Password:	Shi		Welcome, Lisa McNicholas
	Login	pplications	
To log in, type you refer to the <u>help d</u>	r username and password and then cl locumentation for more information.		
	Online User Training	Fexas Student Data System Portal	
		Texas Student Data System Portal	
		Texas Student Data System Portal TEA - Statewide Data Initiatives/PEIMS Roles: Uniq-ID LEA, PEIMS Data Submitter, P Approver, PEIMS Data Accepter, ODS Data Le Dashboards Configurator	Add/Modify Ad EIMS Data Sched/Loader, PEIMS Data Completer, PEIMS Da bader, TSDS studentGPS Dashboards, TSDS studentGPS



In the Portal, click the Utilities link.





Click to download the validation tool and begin the installation process.





	alidation Tool
File	Help
	Help Check For Update About texas student data system
	School Year: Select Providence Collection: Select
	Selected Files

- Receive automatic
 notification when a newer
 version of the Validation
 Tool is available
- Or select Check for Update from menu





The TSDS system is configured to accept zip files with individual XML Interchange Files – cannot accept zip files with folders of XML Interchange Files





This can't be zipped and submitted due to the folder:



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Arrange



- The XML Interchange file name must meet the TEDS naming convention or will be removed from the list
 - Manually correct the name if needed
 - Notify the vendor to correct the file name standard in future extractions



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- □ For an interchange file to be processed correctly:
 - The correct organization and data collection must be identifiable
 - There must be an underscore (_) between each element in the file name

Description	District Code	-	Campus ID	-	Collection Code	-	Timestamp	-	Interchange
Position	1-6	7	8-10	11	12-20	21	22-33	34	35*
Length	6		3		9		12		*



Title Element	Description
District Code	The District (LEA) Code for which the data is being uploaded
Campus ID	The Campus ID if it is campus data otherwise "000" for district data
Collection Code	A character string that identifies the data collection. The first four characters of the Collection Code will be the ending year of the school year. The next four characters of the collection code will indicate the type of the data submitted.

tsds Naming Convention Definitions 2

Title Element	Description
Collection Code	 These values currently are: "FALL1" which represents the PEIMS Fall First Submission "FALL2" which represents the PEIMS Fall Resubmission "FALL3" which represents the PEIMS Fall Working Collection "MDYR1" which represents the PEIMS Mid-Year First Submission "MDYR2" which represents the PEIMS Mid-Year Resubmission "MDYR3" which represents the PEIMS Mid-Year Working Collection "SUMR1" which represents the PEIMS Summer First Submission "SUMR2" which represents the PEIMS Summer Resubmission "SUMR2" which represents the PEIMS Summer Resubmission "SUMR2" which represents the PEIMS Summer Working Collection "SUMR3" which represents the PEIMS Extended-Year First Submission "EXYR1" which represents the PEIMS Extended-Year Resubmission "EXYR2" which represents the PEIMS Extended-Year Working Collection "EXYR2" which represents the PEIMS Extended-Year Resubmission "EXYR3" which represents the PEIMS Extended-Year Working Collection

tsds Naming Convention Definitions 3

Title Element	Description
Timestamp	The timestamp is a date in YYYYMMDDHHMM format (e.g. 201406021015). The Timestamp shall be a system generated value at the time the data is extracted.
Interchange	The interchange is the name of the interchange being submitted



□ The correct naming convention follows the format of these examples:

Samples

Sample 1 Definition:

2013-2014 Fall First Submission Collection Staff Association Interchange for Region XIII

Sample 1 Name:

227950_000_2014FALL1_201310271015_InterchangeStaffAssociationExtenstion.xml

Sample 2 Definition:

2013-2014 Fall First Submission Collection Student Interchange for Austin ISD

Sample 2 Name:

227901_000_2014FALL1_201310271015_InterchangeStudentExtension.xml





File Help			
tscis texas student data system		Validation To	ol
School Year: Select Select Select Select	Browse:		
Selected Files # Name	Path	Size Status	
in page for File Selection	Process Files	Details Clear All Remove F	ile Ssps

tsds Validation Process: Select Year







File Help	
tsös texas student data system	Validation Tool
School Year: 2012-2013 Collection: Select Select Select Select Select Dashboard	owse: 🗁
# Name Path	Size Status
Pro	ocess Files Details Clear All Remove File
	tsds Open TSDS



🛓 Open	- I have		_	×	
Look In:	rchive	•	a 🔒 🗅		
999901_000	0_2013TSDS_201305161100_ 0_2013TSDS_201305161101_	InterchangeEducationOr InterchangeEducationOr	ganizationExtens ganizationExtens	sion.xml sion.xml	
999902_000 999902_000	0_2013TSDS_201305161100_ 0_2013TSDS_201305161101_ 0_2013TSDS_201305161100	InterchangeEducationOr InterchangeEducationOr InterchangeEducationOr	ganizationf ganizationf ganizationf	Browse to target fil	o locate the e
999903_000	 0_2013TSDS_201305161101_ 0_2013TSDS_201305301200_	InterchangeEducationOr InterchangeEducationOr	ganizationE ganizationExtens	sion.xml	
	III				
File <u>N</u> ame: Files of <u>T</u> ype:	2_000_2013TSDS_201305161 XML Files(*.xml)	101_InterchangeEducatio	nOrganizationExt	ension.x	
			Open C	ancel	



File Help				
tsös texas stude data syster	ent n	Validat	ion Tool	
Select Files to Validate				
School Year: 2012-2013 Collection Selected Files # Name 1 999901_000_2013TSDS_201305 2 999901_000_2013TSDS_201305 3 999902_000_2013TSDS_201305 4 999902_000_2013TSDS_201305	Path Path i161100_Interchange C:\Users\tbryant\Documents\TSDS\2 i161101_Interchange C:\Users\tbryant\Documents\TSDS\2 i161100_Interchange C:\Users\tbryant\Documents\TSDS\2 i161101_Interchange C:\Users\tbryant\Documents\TSDS\2 i161101_Interchange C:\Users\tbryant\Documents\TSDS\2	Size Demo 10.1 KB Demo 10.1 KB Demo 10.1 KB Demo 10.1 KB	Status Not Processed Not Processed Not Processed Not Processed	
Select the XML Interchange files to be processed and click Process Files	Process Files Det	tails Clear All	Remove File	



- The TSDS Client-Side Validation Tool confirms that:
 - The XML Interchange Files adhere to the collection specific validation package rules
 - The data in the interchange file complies with the TEDS Section 3



- TEDS Section 3 checks include:
 Data length
 Required field
 - Data type

Complex type



- TEDS Section 4 Checks provides the description of code tables, including:
 - Code Value
 - Translation

tsds Validation Process: File Status

Help	
tsös texas student data system	Validation Tool
School Year: 2012-2013 Collection: Select Browse:	The Status column indicates Passed or Faile for each file
# Name Path 1 999901_000_2013TSDS_201305161100_Interchange C:\Users\tbryant\Documents\TSDS 2 999901_000_2013TSDS_201305161101_Interchange C:\Users\tbryant\Documents\TSDS 3 999902_000_2013TSDS_201305161100_Interchange C:\Users\tbryant\Documents\TSDS 4 999902_000_2013TSDS_201305161101_Interchange C:\Users\tbryant\Documents\TSDS	Size Status Sl2 Demo 10.1 KB Passed Sl2 Demo 10.1 KB Passed Sl2 Demo 10.1 KB Passed
Process Files	Details Clear All Remove File

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tsds Validation Process: File Details

,
Size Status hts\TSDS\2 Demo 10.1 KB Passed hts\TSDS\2 Demo 10.1 KB Passed
Details Clear All Remove File

tsds Validation Process: Detail Errors

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	tsos texas student data system				١	/alidatic	on Te	ool
	Detail Erro	ors		Stopped a	t 1 error(s).			
	File Name: 999903_000_2013TSDS_201305301201_InterchangeEducationOrganizationExtension.xml					xml		
	Organization:	999903	School Year:	2012-2013	Collection Period:	Dashboard		
			Error Count:	1	Processing Time:	0.033sec		
					Filte	er Errors All	Y	
	Line 21	Error cvc-p	Message attern-valid: Value 'TEX' is	not facet-valid w	Error Ty vith respect to patter Fatal	уре		
A new s the file	screen lists e	errors in						
Error details can be printed or exported to Event								
Excel					Print All Errors	🔀 Export All Erro	rs	



Details delineate -

- 🗆 Row
- XML Interchange
- Corresponding TEDS element
- Error
- Message and the Error Type

Line	Error Message	Error Type
21	cvc-pattern-valid: Value 'TEX' is not facet-valid with respect to patter	Fatal

Error Types are Fatal, Warning, and Special Warning

tsds Validation Process: File Details





- A pop-up message indicates the selected file has no errors
- Click OK to exit the screen







- If you experience problems executing a download or version update, it can indicate:
 - The network is experiencing connectivity issues; you will need to retry the update later when connectivity has been restored.
 - There is not enough disk space; clear disk space and attempt the version update when disk space has been cleared.



- Verify there is enough disk space on the local machine. Remove unnecessary files to free up space.
- If the validation tool freezes the during the process:
 - Terminate the program and start the process again
 - If it freezes a second time on the same file, try a new file
 - If the new file succeeds, regenerate the original file from the source system and run it again



- Guided activity on how to run the Validation Process and check the Status of the XML Interchange Files:
 - http://jukebox.esc13.net/teadeveloper02/TSDS_Sims/TSDS_Client_Side_ Validation_Tool/TSDS_Client_Side_Validation_Tool.htm
- Client-Side Validation Tool Technical Resources from TSDS webpage:
 - http://www.tea.state.tx.us/TSDS/Technical_Resources/Technical_Conten_ ts/Validation_Tool/
- **TEDS** information on the TSDS Website:
 - http://www.tea.state.tx.us/TSDS/TEDS/Texas_Education_Data_Standar
 ds/



Term	Definition
EDW (Education Data Warehouse)	This is the single data repository that feeds the PEIMS and the studentGPS collections
DTU (Data Transfer Utility)	The DTU is an FTP client that transfers files stored at the LEA to the eData Manager (eDM)
eDM (eData Manager)	The portal through which LEAs can manually submit data and monitor data submissions
ETL	ETL means Extract, Transform, Load. This refers to the process of moving data from one system to another (like SIS to ODS) and transforming the data to meet the requirements of the destination environment
ODS (Operational Data Store)	This is the actual data warehouse in the TSDS system
PDM (PEIMS Data Mart)	The PDM is the data mart that pulls data from the ODS and directly feeds the PEIMS application



Term	Definition
DDM (Dashboard Data Mart)	The DDM is the data mart that pulls data from the ODS and directly updates the studentGPS [™] Dashboards
XML Interchange File	TEA uses XML Interchange Files as the vehicle to transfer data







Questions?

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www.TexasStudentDataSystem.org