

Texas Education Agency

TSDS Technical Course: Loading Data into the ODS Troubleshooting Guided Exercise (Course 3)

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TSDS Technical Course 3: Loading Data into the ODS

Troubleshooting Guided Exercises

Identifying Issues at Each Point in the TSDS High Level End User Process Map

Quick Guide File Preparation

File Manager (Pre Load) Validation Errors

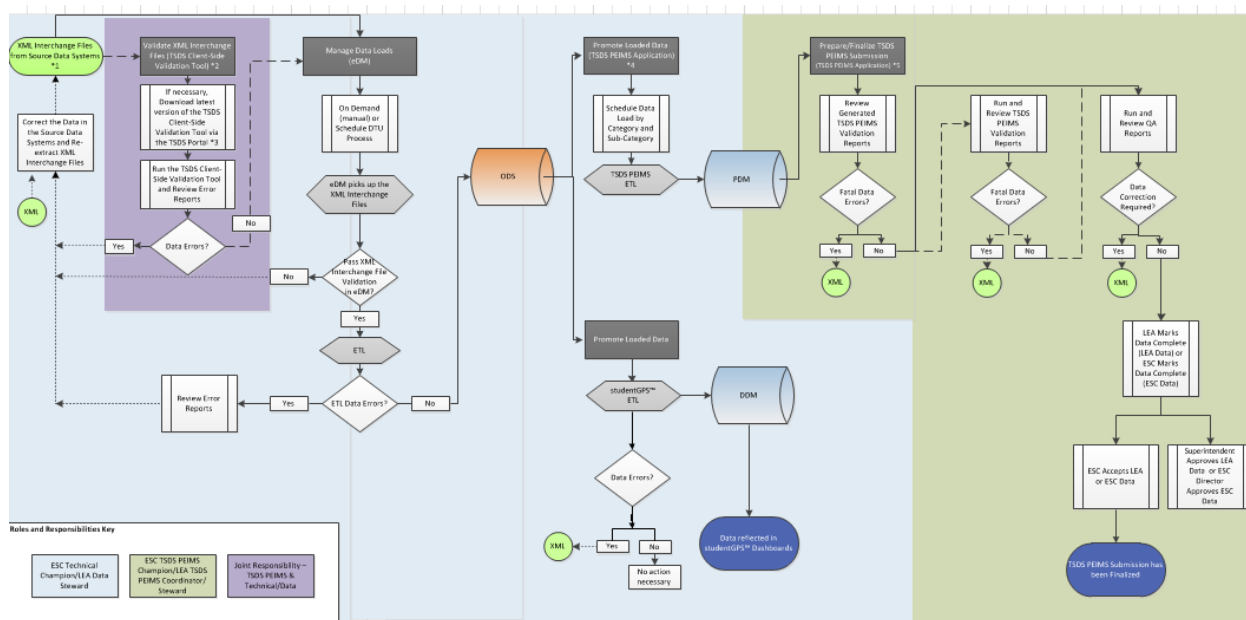
Batch Manager (Load) Validation Errors

Introduction

There are several points in the process of loading data into the ODS that may present either system issues or data issues that will require remediation. We are going to review potential issues at each point and discuss an appropriate course of action.

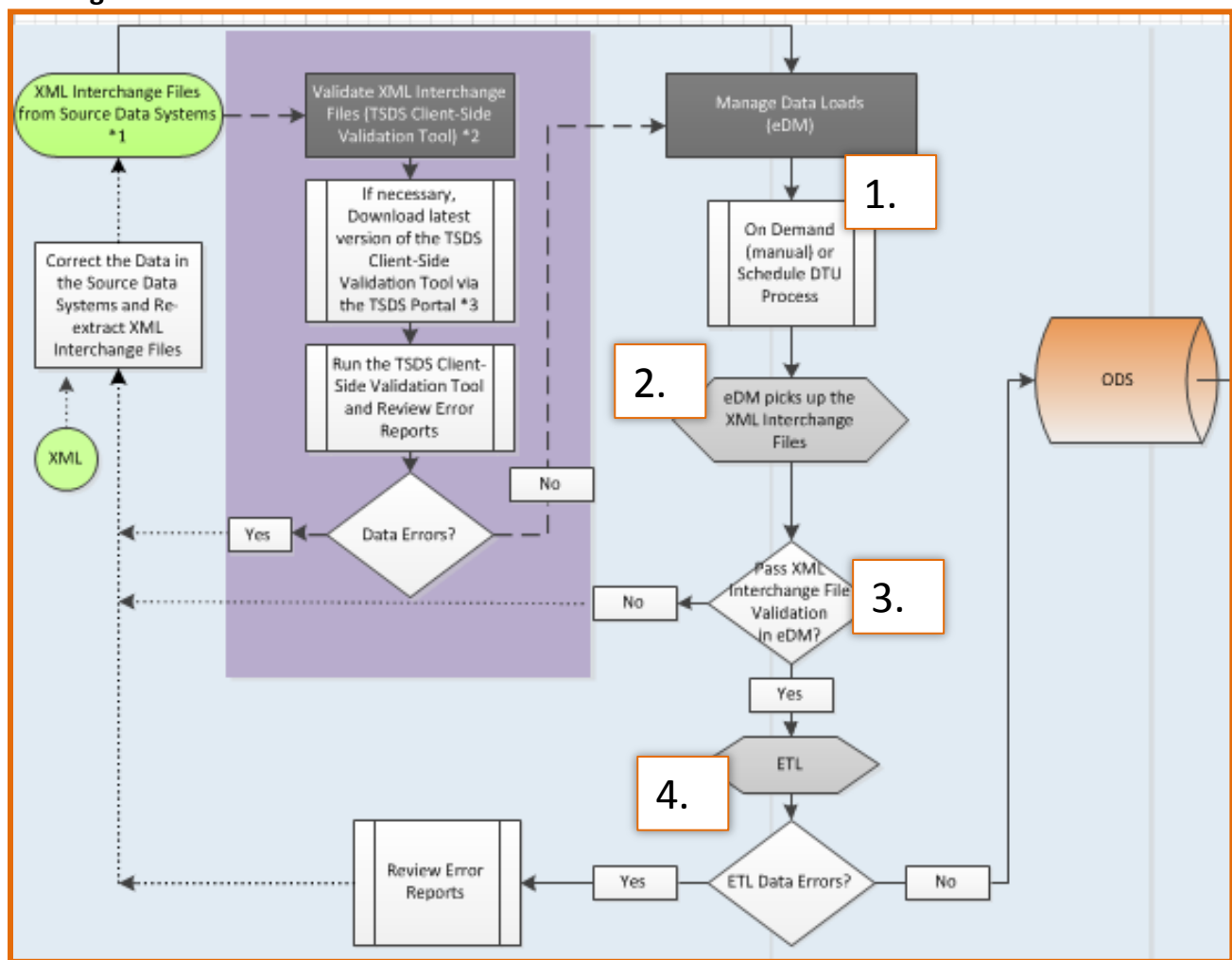
Figure 1.

TSDS High Level End User Process Map Exercise



Debrief: Talk through the process of loading an XML Interchange File into the ODS, starting with the Source System extract. You may need to refer to the hard copy of the TSDS High Level End User Process Map downloaded from Project Share in order to view the details on the page. Note the data transaction points below:

Figure 2.
Loading Data into the ODS



Debrief: For each of the points, what are some of the potential problems that could occur?

1. TSDS DTU transfers XML Interchange Files to TSDS eDM

2. TSDS eDM picks up the XML Interchange Files

3. XML Interchange Files are run against the File Manager Validations in TSDS eDM

4. XML Interchange Files are run against the Batch Manager Validations in TSDS eDM

XML Interchange File Preparation

Note: The source system vendor is primarily responsible for producing the XML Interchange Files in the correct format with correct TEDS naming convention. However, as a starting point in the troubleshooting process the end user should be able to identify and recreate the correct file naming convention.

The TSDS Client-Side Validation Tool, the DTU and ODS all require that the XML Interchange Files meet the same TEDS naming convention. With that said, most file name issues should be identified prior to submission to the ODS.

The latest version of the TEDS documentation, go to the TSDS website. The website will always provide the most up to date information about TEDS.

Task:

Go to: http://www.tea.state.tx.us/TSDS/TEDS/TEDS_Latest_Release/

Locate the documentation that describes the TEDS naming convention.

A summary of the current naming convention is also provided below. Note that there is an underscore () between each element of the title 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	<p>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.</p> <p>These values currently are:</p> <ul style="list-style-type: none"> • "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

	<ul style="list-style-type: none"> • “MDYR3” which represents the PEIMS Mid-Year Working Collection • “SUMR1” which represents the PEIMS Summer First Submission • “SUMR2” which represents the PEIMS Summer Resubmission • “SUMR3” which represents the PEIMS Summer Working Collection • “EXYR1” which represents the PEIMS Extended-Year First Submission • “EXYR2” which represents the PEIMS Extended-Year Resubmission • “EXYR3” which represents the PEIMS Extended-Year Working Collection • “TSDS” which represents data submissions including studentGPS™ data
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.

Task: Based on the information, how would you make the following information align to the TEDS naming convention?

Sample XML Interchange File Name
Definition:
2013-2014 Fall First Submission Collection Staff Association Interchange for Region XIII
Name:
227950_000_2014FALL1_201310271015_InterchangeStaffAssociationExtension.xml

Task: Based on the information, how would you make the following information align to the TEDS naming convention?

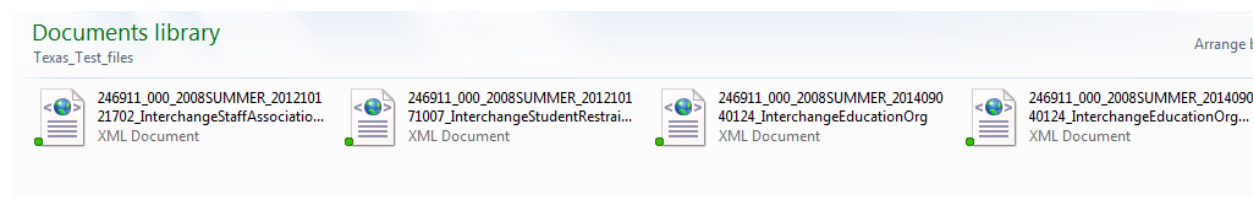
2013-2014 Fall First Submission Collection Student Interchange for Austin ISD, if the district code for Austin is 227901

Figure 3.

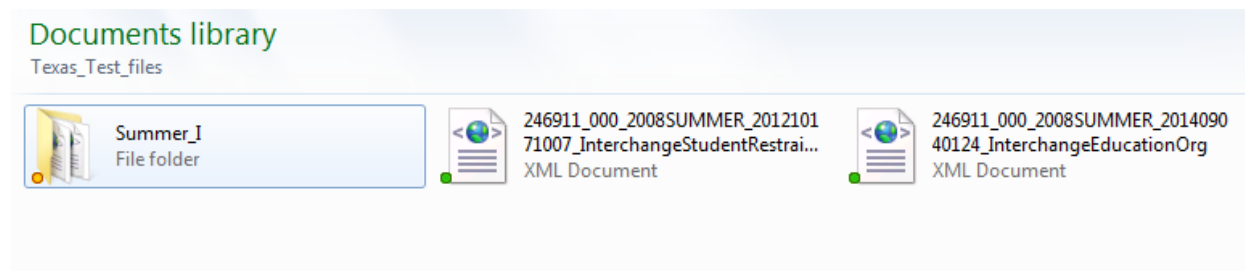
Correct zip folder parameters for manual data submissions to eDM

The TSDS eDM does not accept zip folders with folders in the directory – only zip folders with single files in the directory.

Accepted:



Not accepted:



File Manager (Pre Load) Validation Errors

Instructions:

1. Navigate to the File Manager screen and use the date filters to show several months of data.
2. Find XML Interchange Files that have failed validation.
3. Drill down to view File Details.
4. Compare the error messages to samples below.

Error	Error Message
Missing Mandatory Field	Error 1: XSD cvc-complex-type.2.4.a: Invalid content was found starting with element 'Address'. One of '{ "http://www.tea.state.tx.us/tsds" :OrganizationCategories}' is expected.
Character Type	Error 1: XSD cvc-pattern-valid: Value 'A12345678' is not facet-valid with respect to pattern '[1-9]{10}' for type 'UniqueStateIdentifier'. Error 2: XSD cvc-type.3.1.3: The value 'A12345678' of element 'StudentUniqueStateId' is not valid.
Field Length	Error 1: XSD cvc-pattern-valid: Value 'TEX' is not facet-valid with respect to pattern '[A-Z]{2}' for type 'StateAbbreviationType'. Error 2: XSD cvc-type.3.1.3: The value 'TEX' of element 'StateAbbreviation' is not valid.
Data Element Tag is Named Incorrectly	Error 1: XSD cvc-complex-type.2.4.a: Invalid content was found starting with element 'OrganizationCategorie'. One of '{ "http://www.tea.state.tx.us/tsds" :OrganizationCategories}' is expected.
Complex Type-Collection	Error 1: XSD cvc-complex-type.2.4.a: Invalid content was found starting with element 'StudentBilingualProgramAssociationExtension'. One of

	'{" http://www.tea.state.tx.us/tsds ":StudentCTEProgramAssociation, " http://www.tea.state.tx.us/tsds ":StudentSpecialEdProgramAssociationExtension, " http://www.tea.state.tx.us/tsds ":StudentTitleIPartAProgramAssociationExtension, " http://www.tea.state.tx.us/tsds ":StudentProgramAssociation, " http://www.tea.state.tx.us/tsds ":ServiceDescriptor}' is expected.
Data Elements should be in Order Defined by XML Interchange Schemas	Error 1: XSD cvc-complex-type.2.4.a: Invalid content was found starting with element 'OrganizationCategories'. '{" http://www.tea.state.tx.us/tsds ":NameOfInstitution}' is expected.
Interchange Data Submitted Does Not Match File Name	<p>File Content - Data File ID: 1573; Data File Name: 999903_000_2013TSDS_201305301104_InterchangeStudentParentExtension.xml</p> <p>Error 1: XSD cvc-elt.1: Cannot find the declaration of element 'InterchangeEducationOrganization'.</p>

Debrief:

Do you have any examples that are similar? Provide an explanation below.

How would you remediate the data issue noted above?

Batch Manager (Load) Validation Errors

Instructions:

1. Navigate to the Batch Manager screen and use the date filters to show several months of data.
2. Find XML Interchange Files that have failed the load validation.
3. Drill down to view Batch Details.
4. Compare the error messages to samples below.

Error	Error Message	Error Value
Invalid Code	Values Not in Scholwhs.Course Table	District_Code = 161903, Location_Id = 161903001, School_Year = 6/30/2012, Reporting_Date = 6/30/2012, Period_Level_Desc = TSDS, Course_Id = ABC_2013_12345678, Semester = N/A
Duplicates	Scholwhs.Assessment_Fact	Assessment_Info.Test_Desc = TELPAS, Assessment_Item.Subject_Area_Desc = Reading, Assessment_Item.Item_Grade = Eighth grade, Assessment_Item.Item_Version_Id = 2002, Period.Period_End_Date = 3/1/2012, Stud_Snapshot.Student_Id = 6733198894
	Scholwhs.Assessment_Fact	Assessment_Info.Test_Desc = TELPAS, Assessment_Item.Subject_Area_Desc = Reading, Assessment_Item.Item_Grade = Eighth grade,

[Type text]

		Assessment_Item.Item_Version_Id = 2002, Period.Period_End_Date = 3/1/2012, Stud_Snapshot.Student_Id = 6733198894
Student Doesn't Exist in the Student Table	Values Not in Scholwhs.Stud_Snapshot Table	District_Code = 000000, Snapshot_Date = 6/30/2013, Period.Period_Level_Desc = TSDS, Student_Id = 1111111789
Location Code doesn't Exist in the Location Table	Values Not in Scholwhs.Location Table	District_Code = 000000, Location_Id = 000000

Debrief:

Do you have any examples that are similar? Provide an explanation below.

How would you remediate the data issue noted above?

