

TSDS Technical Course Module 1: Overview of TSDS and TSDS High Level End User Process Map

- ❑ Overview of TSDS
- ❑ TSDS High Level End User Process Map
- ❑ TSDS Roles and Responsibilities
- ❑ Wrap Up and Questions
- ❑ Knowledge Check

Term	Definition
EDW (Education Data Warehouse)	This is the single data repository that feeds the PEIMS and the studentGPS™ Dashboards 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
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

- TSDS – Texas Student Data System
- PEIMS – Public Education Information Management System
- TEA – Texas Education Agency
- ESC – Education Service Center
- LEA – Local Education Agency
- SIS – Student Information System
- SSIS – State-sponsored Student Information System
- TCC – Texas Computer Cooperative
- EDW – Education Data Warehouse
- TPEIR – Texas Public Education Information Resource



Overview of TSDS


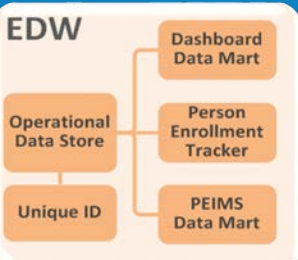
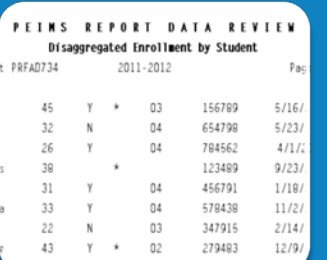


Introducing the Texas Student Data System

A data collection and reporting system that will:

- ❑ Modernize the PEIMS data collection process **to reduce technology risk and system downtime**, allowing for more system availability and ease of use, and;
- ❑ Put **real-time student performance data** in the hands of educators to improve student achievement, and;
- ❑ Become the **one common data collection platform** for TEA to reduce the data collection burden on districts and charter schools.



What are the TSDS Components?

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<p>State-sponsored SIS</p>	<p>Education Data Warehouse</p>	<p>TSDS PEIMS</p>	<p>studentGPS™ Dashboards</p>	<p>Early Childhood Data System</p>																														
<ul style="list-style-type: none"> • Optional • Skyward or TCC TxEIS • Reduced price • Improved functionality • Hosted system 	<ul style="list-style-type: none"> • Data submission platform • Supported by TEA • Data available only to educators • Powers StudentGPS™ Dashboards 	<ul style="list-style-type: none"> • Education reporting system • Efficient • Stable • Expandable 	<ul style="list-style-type: none"> • Optional • Student performance reports • Easy-to-understand • Early warning indicators • Performance trends 	<ul style="list-style-type: none"> • Pre-K and Kinder • Assessment and Demographic student data • Submitted via template 																														



LEA Source Systems

- Interchange extracts are created from source systems in XML format
- Must align with TEDS



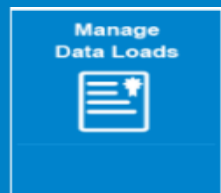
Client Side Validation Tool

- Downloaded from TSDS Portal
- Used by LEAs & ESCs to validate XML interchanges prior to loading
- Errors in interchanges must be corrected in source systems & revalidated



Data Transfer Utility (DTU)

- A secure FTP file transfer client utility
- Downloaded from TSDS Portal & installed at LEA/ESC
- Facilitates On Demand & Scheduled file transfers
- Sends XML files to eDM
- Uses Service Account credentials for login & password
- User selects files to be transferred
- File name is validated
- User can view transfer status



eDM (Manage Data Loads)

- Automatically picks up files that have been transferred by the DTU
- Runs files through data validations & updates the ODS
- Users can also manually upload files
- Error files are generated at initial file validation & again during ETL process
- Errors in interchanges must be corrected in source systems & revalidated
- User can verify that the ODS has been updated by viewing status in the eDM



PEIMS Application

- User schedules and can monitor the promotion of data from the ODS to the PDM
- User specifies collection and submission (e.g. Fall, First)
- User selects Category (e.g. Staff) and Sub Category(ies) to be loaded (e.g. Employment Payroll Summary)
- User can monitor the status



Dashboards Data Mart

- Data is loaded from ODS to a staging DDM
- If load successful, then it is moved to the production DDM for studentGPS™ display
- Metric calculations occur during the load of data from the ODS to the DDM
- Data is automatically refreshed nightly, no user interaction needed
- System will prevent incomplete data from being loaded





ECDS Application

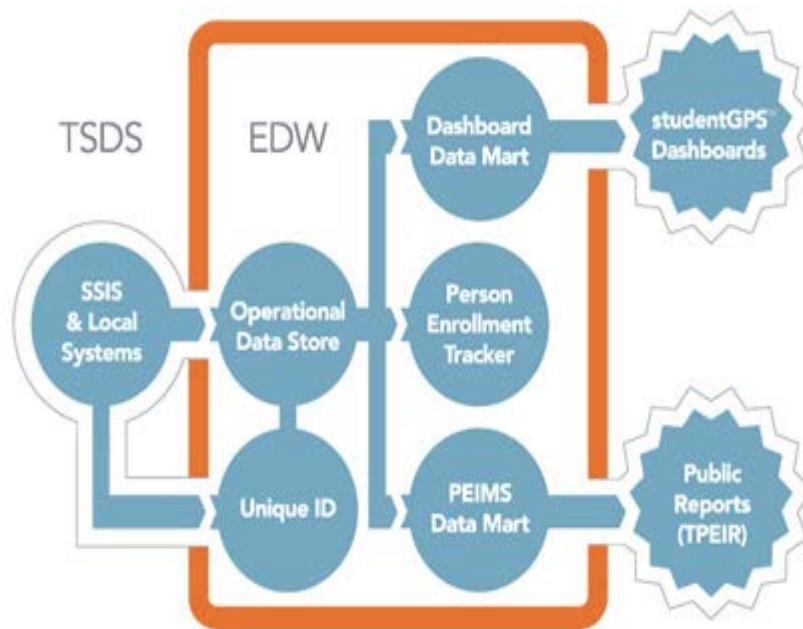
- Early Childhood Data submission for kinder and pre-k
- Charter and Public Schools
- Data Collected include; demographic and, Assessment,
- Data is converted for ODS loading

- The State-sponsored Student Information System (SSIS) is a software as a service (SaaS) master contract negotiated by TEA with *TCC TxEIS* and *Skyward* to reduce price and improve functionality for participating districts and charter schools.
- The voluntary, state negotiated SSIS contracts offer a competitive, not-to-exceed price per student that benefits all sizes of districts and charter schools across the state. Additionally, since TEA negotiated the contract, districts and charter schools do not need to go through the time-consuming process of issuing their own RFP.

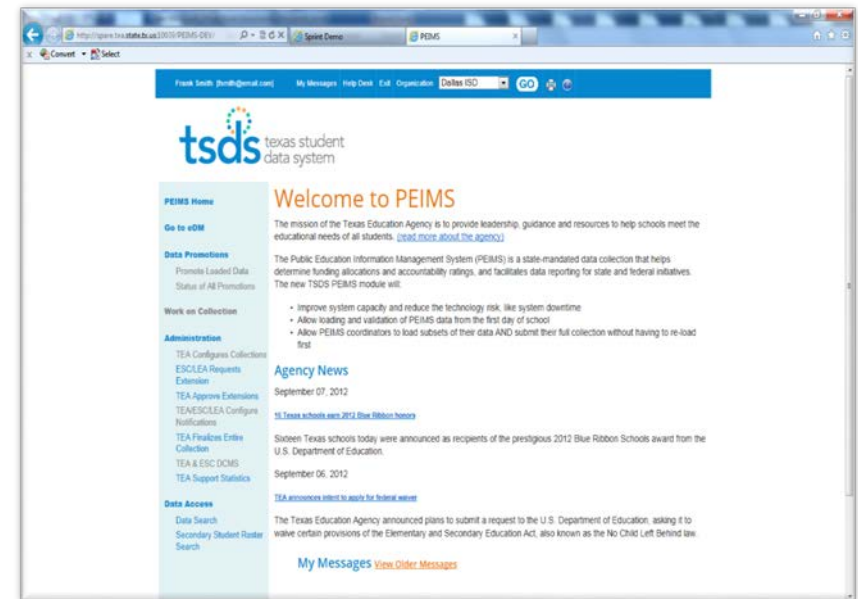
Improved Functionality Includes:

	
<ul style="list-style-type: none"> • Grad Plans • Test Score Reporting • Rubrics • Standards Based Grading • Discipline Referrals • Parent Portal • ...and more 	<ul style="list-style-type: none"> • Career Technology • Special Program Reporting • Scheduling • Registration • Data Security • Parent Portal • ...and more

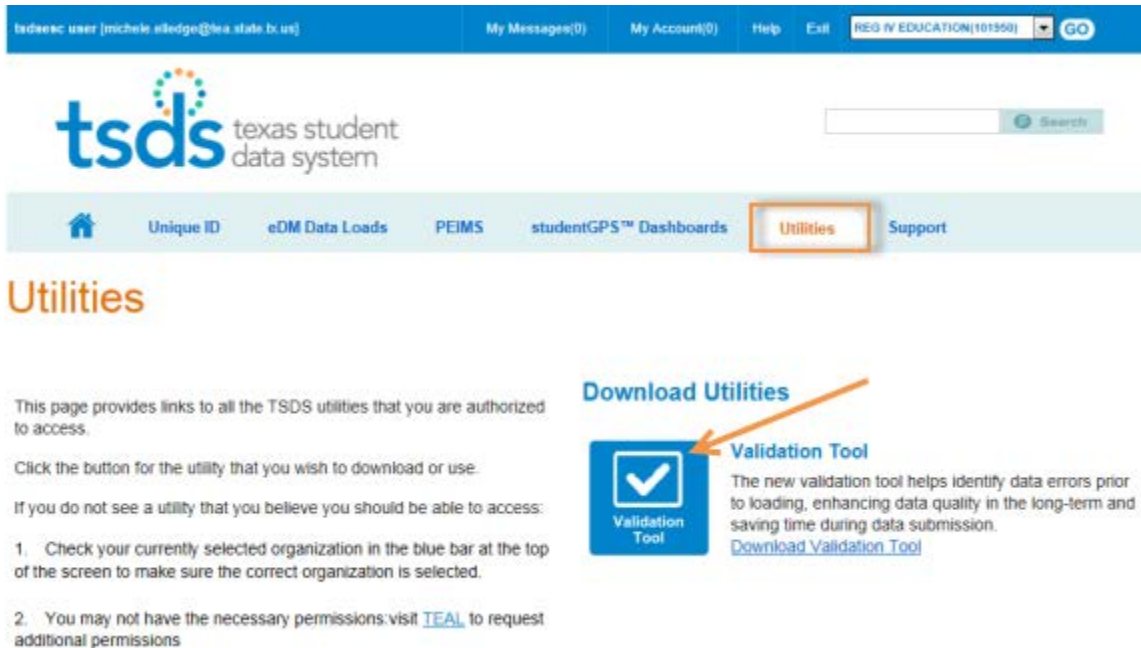
- The Education Data Warehouse provides a **single data repository** that feeds TSDS PEIMS collections and the studentGPS™ Dashboards



- TSDS PEIMS leverages the benefits of the new TSDS platform through a redesign of the state-mandated PEIMS process. TSDS PEIMS collects public school data to help determine funding allocations, accountability ratings, and facilitate data reporting for state and federal initiatives.
- TSDS PEIMS is designed to improve our system capacity which will reduce technology risk (including system downtime) that was present with EDIT+.



- TSDS offers the new TSDS Client-Side Validation Tool, available in the beginning of the data loading process, which will help identify data errors earlier, prior to uploading PEIMS and dashboard data to the Education Data Warehouse (EDW), ultimately enhancing data quality in the long-term.



The screenshot shows the TSDS website interface. At the top, there is a blue navigation bar with user information, messages, and account details. Below this is the TSDS logo and a search bar. A horizontal menu contains links for Unique ID, eDM Data Loads, PEIMS, studentGPS™ Dashboards, Utilities (highlighted with an orange box), and Support. The main content area is titled "Utilities" and contains instructions for accessing tools. A blue button labeled "Validation Tool" with a white checkmark icon is highlighted by an orange arrow. To the right of the button, there is a heading "Download Utilities" and a sub-heading "Validation Tool" followed by a description of the tool's purpose and a link to "Download Validation Tool".

This page provides links to all the TSDS utilities that you are authorized to access.

Click the button for the utility that you wish to download or use.

If you do not see a utility that you believe you should be able to access:

1. Check your currently selected organization in the blue bar at the top of the screen to make sure the correct organization is selected.
2. You may not have the necessary permissions: visit [TEAL](#) to request additional permissions

Download Utilities

Validation Tool

The new validation tool helps identify data errors prior to loading, enhancing data quality in the long-term and saving time during data submission.

[Download Validation Tool](#)

- The studentGPS™ Dashboards gives educators a view into the whole student, providing an easy-to-understand picture of how a student is performing by combining multiple student data, such as grades, attendance, discipline, standardized test scores, program areas, and demographics, all in one place. Educators can easily see the trends and make more timely and informed decisions.



The screenshot shows the studentGPS dashboard for Garrett Q. Hill. The interface includes a navigation bar with 'EXPORT ALL', 'PRINT', 'SUPPORT', and 'LOG OUT' buttons. The breadcrumb trail shows 'Glendale ISD > Hollywood High School > Lizabeth Lemar'. A search bar is present. The student's name 'Garrett Q. Hill' and 'S. Lauer's Homeroom' are displayed. Below this, there are tabs for 'Student Information', 'Academic Dashboard', and 'Transcript'. Under 'Academic Dashboard', there are sub-tabs for 'Overview', 'Attendance and Discipline', 'State Assessments', 'Local Assessments', 'Grades and Credits', 'Advanced Academics', and 'College and Career Readiness'. The 'Overview' tab is active, showing a student photo and a summary of metrics. The metrics are organized into three columns: 'METRIC CATEGORY', 'PERFORMANCE SUMMARY', and 'METRIC STATUS'. The 'Attendance and Discipline' category shows 'Attendance' (7 of 8 metrics met goal) and 'Discipline' (2 metrics met goal). The 'State Assessments' category shows 'State Standardized Assessments' (9 of 10 metrics met goal) and 'Language Assessments' (English Language Learner).

METRIC CATEGORY	PERFORMANCE SUMMARY	METRIC STATUS
<ul style="list-style-type: none"> Attendance and Discipline <ul style="list-style-type: none"> Student attendance and discipline patterns 		
<ul style="list-style-type: none"> Attendance <ul style="list-style-type: none"> Daily and class period attendance 	7 of 8 metrics met goal	██████████
<ul style="list-style-type: none"> Discipline <ul style="list-style-type: none"> Log of discipline incidents and actions year to date 	2 metrics met goal	██
<ul style="list-style-type: none"> State Assessments <ul style="list-style-type: none"> State examinations and assessments 		
<ul style="list-style-type: none"> State Standardized Assessments <ul style="list-style-type: none"> Performance and progress on state standardized test 	9 of 10 metrics met goal	██████████
<ul style="list-style-type: none"> Language Assessments <ul style="list-style-type: none"> English Language Learner 		

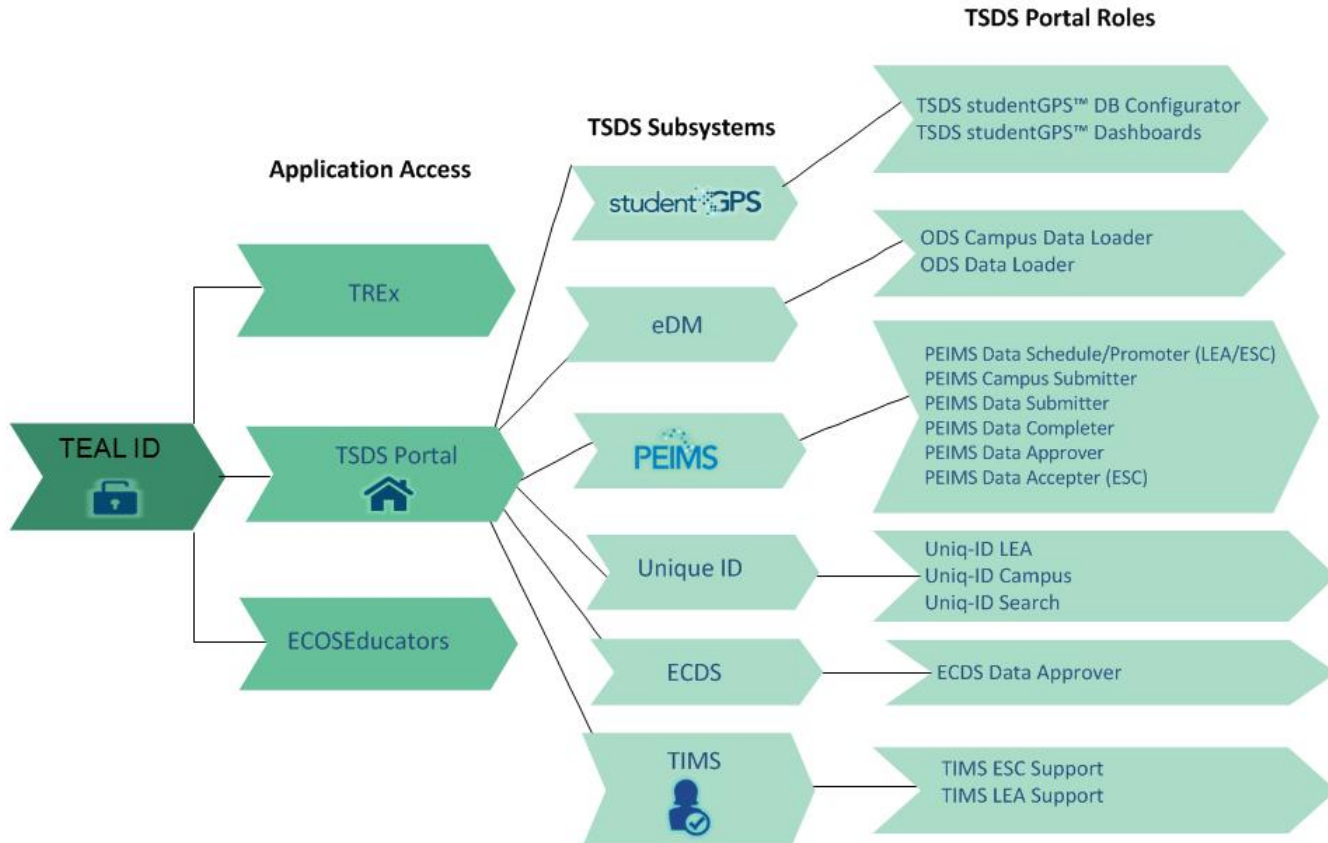
- The Early Childhood Data System generates reports that show the status of the current ECDS data submission for Early Childhood Programs.
- ECDS will inform LEAs, communities, and early childhood programs about the quality of programs in the community and their ability to prepare children for success in kindergarten and beyond.
- For both private and public schools, ECDS will indicate which Pre-Kindergarten classrooms are succeeding and which require additional support.



- TEAL – Texas Education Agency Login
- A single sign-on that provides users access to many TEA applications
- Secure authentication ensures only authorized users can access the applications
- Users must first create a TEAL identity and then request account access to the specific applications needed



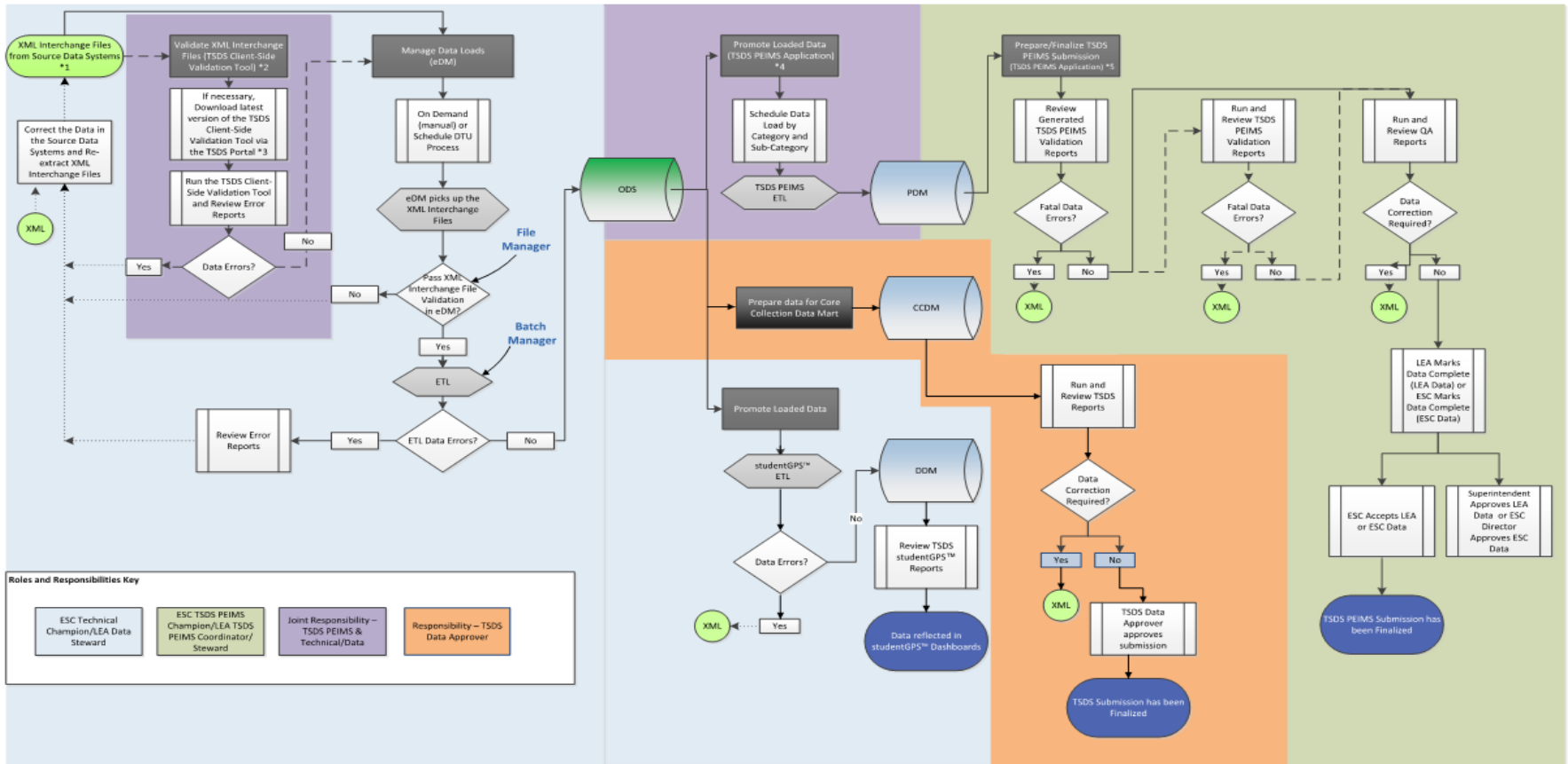
TEAL → TSDS Portal → TSDS Portal Roles





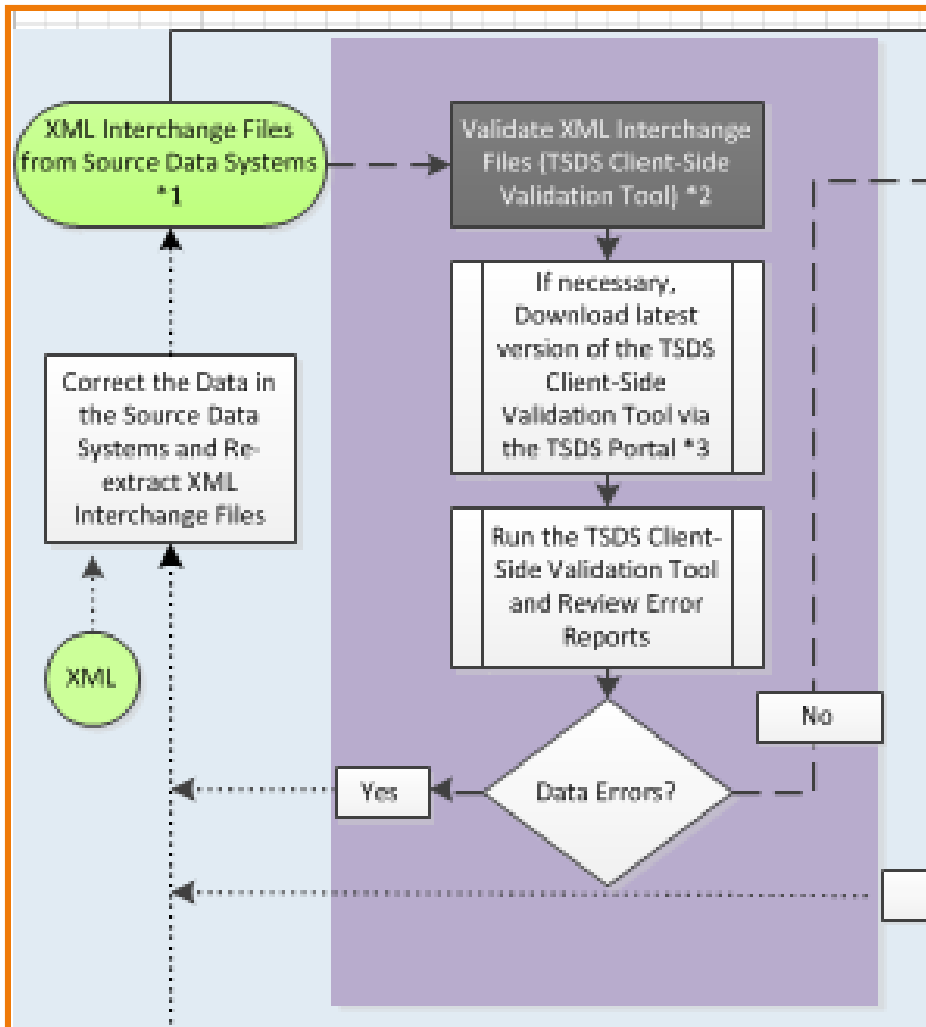
TSDS High Level End User Process Map

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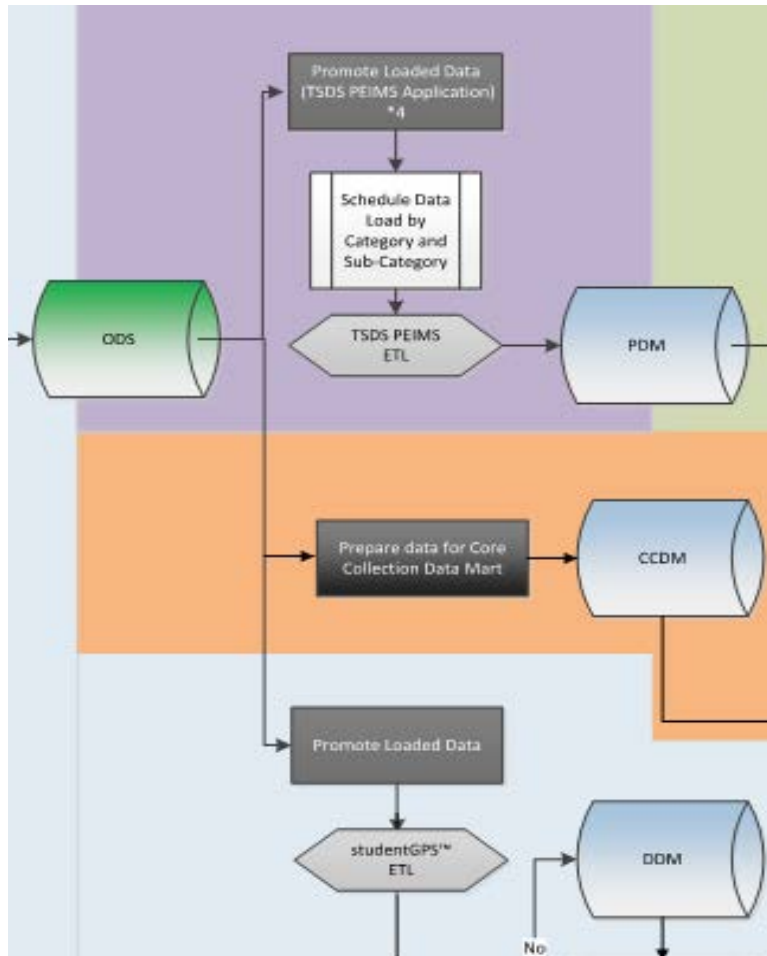


- The collection of Public Education Information Management System (PEIMS) data is required of all Local Education Agencies (LEAs) by TEC §42.006. Texas Education Data Standards (TEDS) provides instructions regarding the submission of PEIMS data from LEAs to the Texas Education Agency.
- TEDS provides instructions regarding the submission of studentGPS™ Dashboards data from those LEAs to the Texas Education Agency

- Describe the data reporting requirements
- Provide descriptions of data elements and the codes used to report them
- Detail the responsibilities of local education agencies, education service centers, and the Texas Education Agency in connection with the data collection process
- Provide descriptions of the data collection requirements, including collection data element and data edit specifications



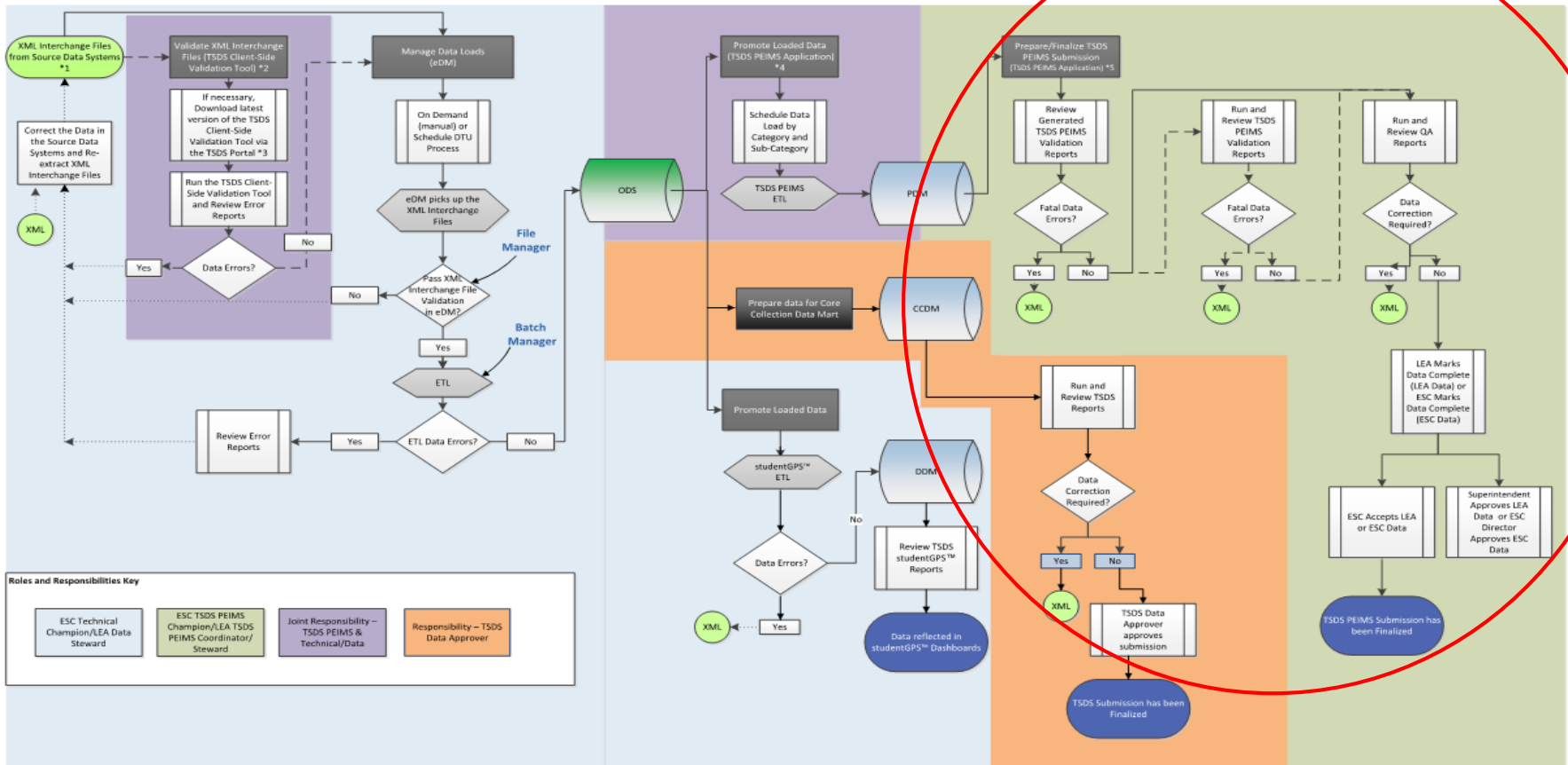
- XML Interchange files are extracted from the source data systems
- The extract process will vary by LEA and by Source Data Vendor
- This is outside the scope of responsibilities for either role defined in this map
- The TSDS Client-Side Validation Tool is a critical component



- After the data is loaded in the ODS:
 - Data promotion to the PEIMS Data Mart (PDM)
 - Data promotion to the Dashboard Data Mart (DDM)
 - Data promotion to the Core Collections Data Mart (CCDM)

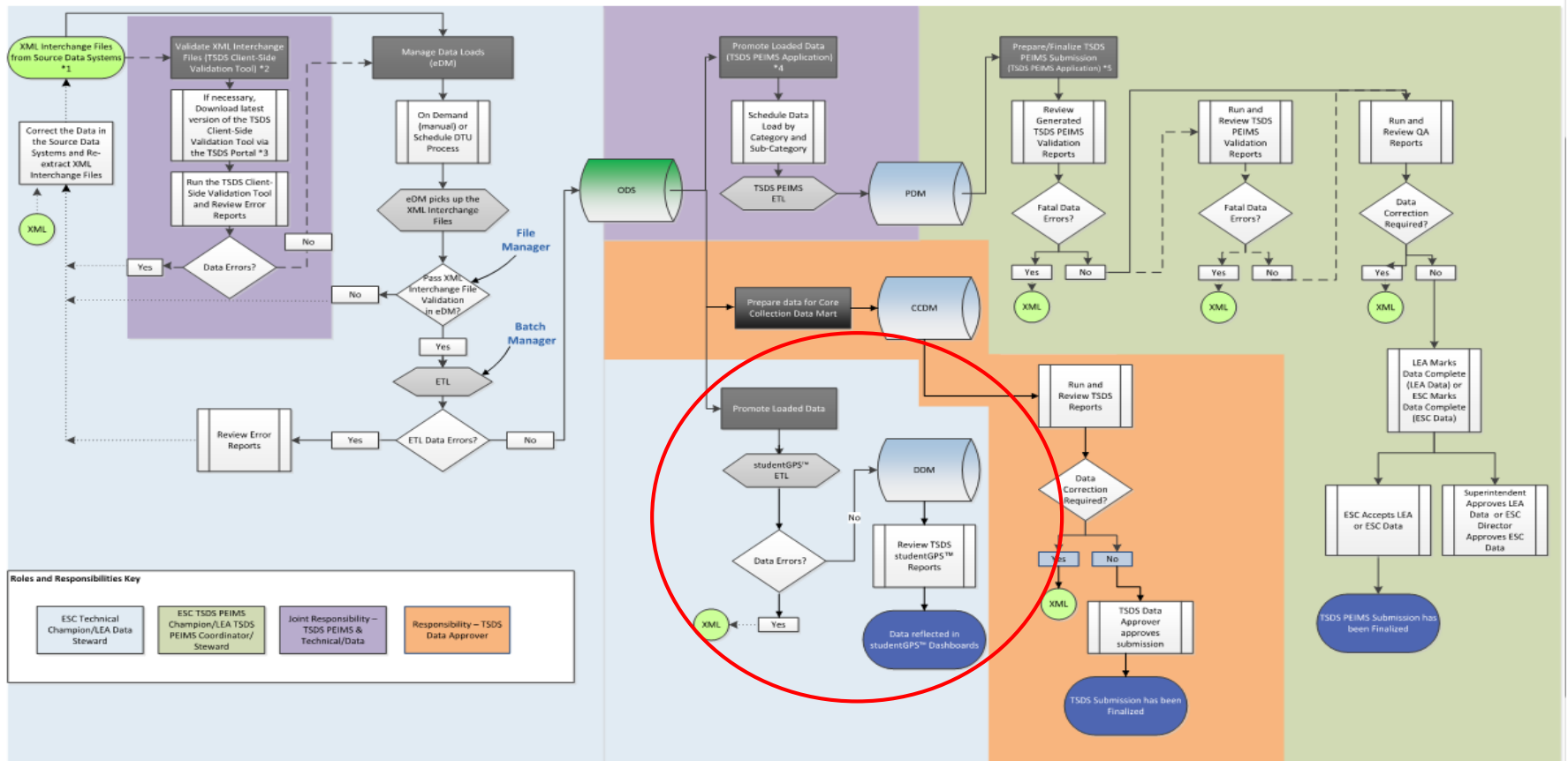


TSDS High Level End User Process Map



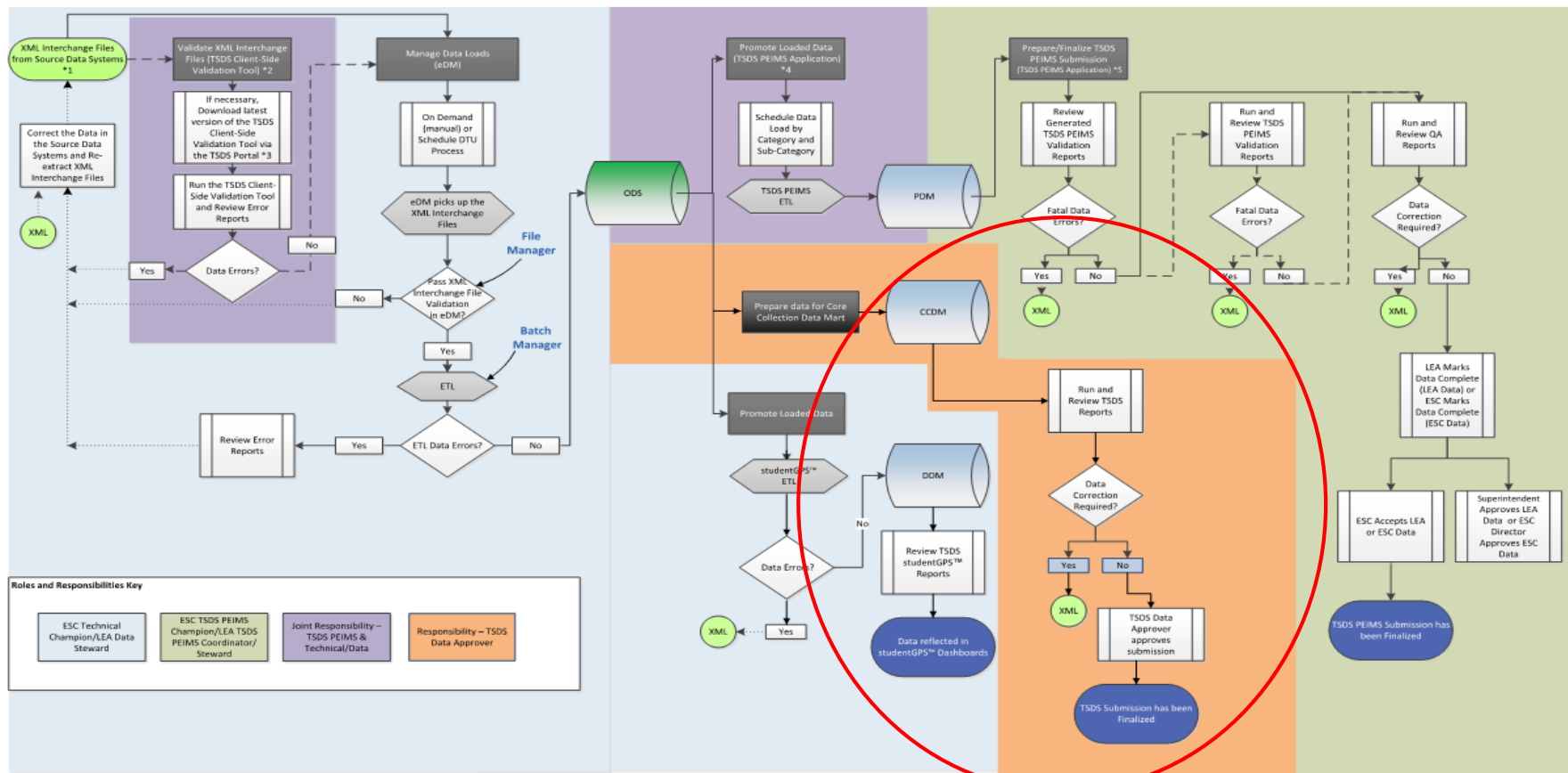


TSDS High Level End User Process Map



<http://www.tea.state.tx.us/Workarea/DownloadAsset.aspx?id=25769810585>

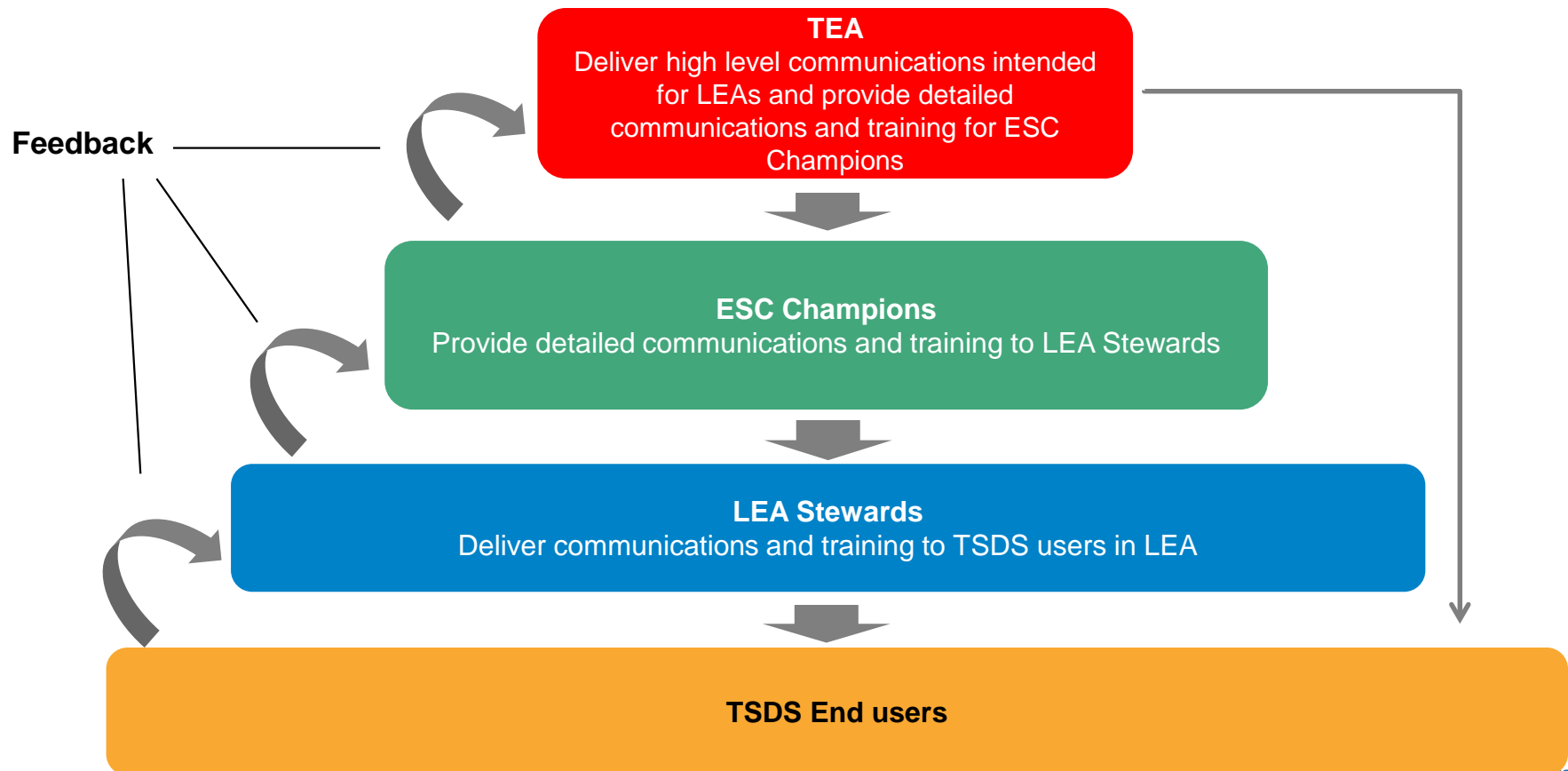
TSDS High Level End User Process Map





TSDS Roles and Responsibilities

The Field Coordination Network is a two-way feedback mechanism that effectively uses a tiered communications path. It enables TSDS to deliver consistent and timely communications to users in ESCs and LEAs.





TSDS Roles and Responsibilities

ESC Technical Champions/LEA Data Stewards	ESC TSDS PEIMS Champions/LEA TSDS PEIMS Stewards/Coordinators	Joint Responsibility
Manage File Transfer in DTU	Run TSDS PEIMS Validation Reports	Run the TSDS Client-Side Validation Tool
Manage Data Load in eDM	Run TSDS PEIMS QA Reports	Download the latest version of the TSDS Client-Side Validation Tool if necessary
Manage Data Promotion to PDM	Mark TSDS PEIMS Data as Ready	
Manage Data Promotion to DDM	Manage ESC Acceptance and Superintendent Approval of Data	
Run studentGPS™ Dashboards Validation Reports		





Wrap Up, Knowledge Check, and Questions

Today we talked about:

- ❑ Overview of TSDS
- ❑ TSDS Components
- ❑ TSDS High Level End User Process Map
- ❑ TSDS Roles and Responsibilities

- We will administer a quick 5 question quiz through the online session. The score Does Not count. It is designed to test your retention knowledge of this module.

Click the link to take the quiz

[Knowledge Check](#)



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studentGPS™
Dashboards

State-
Sponsored SIS

Education Data
Warehouse

TPEIR Public
Reports

TEDS Data
Standards

Technical
Resources

News
& FAQs

Feedback

Simple Solution. Brighter Futures.



MORE DATA



IMPROVED ID



NEW SAVINGS



EXPANDED REPORTS



BETTER PLANNING

Search



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Questions?

www.TexasStudentDataSystem.org

