

# **TSDS UPGRADE PROJECT - ESC**



# AGENDA

#### **DATA STANDARDS**

Submission Requirements and Technical Resources

#### **PROJECT UPDATES**

Pilot Program, Demonstration, Training Strategy

#### **NEXT STEPS**

How to Prepare for Parallel Submission







# DATA STANDARDS

### **TEXAS EDUCATION DATA STANDARDS**





#### Texas Student Data System

#### tscis texas student data system **TPEIR Public** Education Data TEDS Data Technical News & FAQs Feedback About Warehouse Reports Standards Resources Current TEDS Data Standards r Futures. Simpl ODS 3 x Data Standards NEW SAVINGS **IMPROVED ID** EXPANDED REPORTS MORE DATA BETTER PLANNING



#### **NEW RESOURCES**

#### Operational Data Store (ODS) Upgrade Texas Education Data Standards





#### ODS Upgrade Data Standards







#### **DATA SUBMISSION REQUIREMENTS**



Data Submission Requireme	1105		Entity	Entity Ref	Data Element	Collection/Submission	Length	Data Type	Descriptor Table	Element ID
a Submission Requirements (by domain)			Cohort							
ation Organization				Ø	EducationOrganization	PK	9	<b>6</b> 1.1		
-				_	CohortIdentifier CohortDescription	РК	20 1024	String String		E1173 E1174
ar					CohortType	PK	1024	String		NP
			Legend:	-						
and Demographics			ALL – Data element is used I PF – PEIMS Fall	oy all collecti		Roster Fall s Roster Winter		CF – Chil RF – RF-		
			PM – PEIMS Mid-year		KG – ECDS	KG		SE -SEL4		
			PS - PEIMS Summer      PK - ECDS PK      14 - SPPI-14        PE - PEIMS Extended Year      14 - SPPI-14      14 - SPPI-14							
			NP – Data element is not pr	omoted to T	SDS					
			Entity Description	onts any t	type of list of designated st	udents for tracking analy	sis or into	nuention		
3			The conort Entity repres	ents any t	sype of list of designated st	udents for tracking, analy	sis, or line	ivention.		
		,	General Reporting Re							
			The Conort Entity report	s conorts	that a teacher and student	are associated with.				
			Special Reporting Req							
	03/06/2023		Currently, there are no special reporting requirements.							
	03/06/2023		Data Element Reporting Requirements							
gram Eligibility Association			EducationOrganization							
			The EducationOrganizat	on Refere	nce represents the identifi	er assigned to a school.				
			Cohortldentifier (E1173	indicates	the name or ID for the col	nort.				
			CohortDescription (E11)	74) is the (	description of the cohort a	ad its purpose				



#### **TECHNICAL RESOURCES: COURSE**



2023-2024 Texas Education Data Standards – Technical Resources Final Version 2024.1.0 Updated March 1, 2023

#### <u>Course</u>

The table listed below was formerly known as the SERVICE-ID (C022) table. In the upgraded data standards, the Texas Education Agency (TEA) will populate the Course Entity with the TEA approved Course information located below. All locally developed courses must be assigned an eight-digit course code. This number may be a combination of letters and numbers, the last three digits of which are assigned locally. The Local Education Agency (LEA) vendor will need to populate the Course Entity with any LocalCourseCodes.

The Course Code, Course Title, and Course Abbreviations of state-approved courses used on the Academic Achievement Record are listed in the table below. Use of these prescribed numbers, titles, and abbreviations is required for participation in the Texas Records Exchange (TREx) system.

Table Identification	Name	Date Issued		Date Updated	
C022	Course	03/01/2023			
Course Code	Course Title	Eligible for State HS Credit	Course Abbreviation	Units	CTE Course
	Grades PK - 6, Elementary				
01010000	Pre-Kindergarten				
01020000	Kindergarten				
01020100	Transition (Pre-First Grade, Developmental First)				
02000000	Elementary, Grades 1-6				
02010000	Grade 1				
02020000	Grade 2				
02030000	Grade 3				
02040000	Grade 4				
02050000	Grade 5				
02060000	Grade 6				
01110000	Languages Other Than English, Kindergarten - Arabic				
02111000	Languages Other Than English, Grade 1 - Arabic				

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#### Table of Contents Table of Contents Introduction ..... Course .... Grades PK - 6, Elementary ... Grades 7-8, Self-Contained. Grades 7-8, General ..... English Language Arts ..... Mathematics ..... Science ..... Social Studies Health..... Physical Education ..... Fine Arts ..... Technology Applications ..... Grades 9-12 English Language Arts ..... Mathematics .....

#### **TECHNICAL RESOURCES: CTE INDICATOR**



Final Version 2024.1.0 Updated March 1, 2023

2023-2024 Texas Education Data Standards - Technical Resources

Grades 6-8	
Grades 9-12	
PEIMS Career and Technical Education Indicator	



#### **PEIMS Career and Technical Education Indicator**

Beginning with the 2020-2021 school year, the Career and Technical Education Indicator is a calculated value based on the student's course completion data for all years in which the student could have taken a CTE course. The Career and Technical Education Indicator will be calculated by TEA for all students in grades 06-12.

The Career and Technical Education Indicator is calculated, once the PEIMS Summer Submission is in the Accepted status for all LEAs and once the PEIMS Extended-Year Submission is in the Accepted status for all LEAs. Reports that display the calculated value will be available approximately two weeks after each submission closes.

The possible calculated Career and Technical Education Indicator values are described below:

C142    Career And Technical Education Indicator    03/03/1993    09/01/2021      Indicator    Description      4    Not CTE:    A student who never completed any high-school CTE courses.    Image: CTE Program Participant:      5    CTE Program Participant:    CTE program Participant:      6    A student who completes either one high school CTE course for any number of credits or more than one high school CTE course for less than two credits (the student does not have to pass or receive credit).      CTE Program Explorer:    CTE Program Explorer:      E    A student who completes two or more high school CTE courses for a total of two or more credits and not a Participant,	Name	Date Issued	Date Updated			
4    Not CTE:      4    A student who never completed any high-school CTE courses.      5    CTE Program Participant:      5    A student who completes either one high school CTE course for any number of credits or more than one high school CTE course for less than two credits (the student does not have to pass or receive credit).      CTE Program Explorer:    CTE Program Explorer:	Career And Technical Education Indicator	03/03/1993	09/01/2021			
4    A student who never completed any high-school CTE courses.      5    CTE Program Participant:      5    A student who completes either one high school CTE course for any number of credits or more than one high school CTE course for less than two credits (the student does not have to pass or receive credit).      CTE Program Explorer:    CTE Program Explorer:	Description					
5    A student who completes either one high school CTE course for any number of credits or more than one high school CTE course for less than two credits (the student does not have to pass or receive credit).      CTE Program Explorer:						
	A student who completes either one high school CTE course for any n		one high school CTE			
Concentrator or Completer (the student does not have to pass or receive credit) or	A student who completes two or more high school CTE courses for a		not a Participant,			
		Career And Technical Education Indicator Description Not CTE: A student who never completed any high-school CTE courses. CTE Program Participant: A student who completes either one high school CTE course for any n course for less than two credits (the student does not have to pass or CTE Program Explorer: A student who completes two or more high school CTE courses for a to a student who completes two or more high school CTE courses for a to A student who completes two or more high school CTE courses for a to CTE Program Explorer:	Career And Technical Education Indicator    03/03/1993      Description      Not CTE:      A student who never completed any high-school CTE courses.      CTE Program Participant:      A student who completes either one high school CTE course for any number of credits or more than a course for less than two credits (the student does not have to pass or receive credit).      CTE Program Explorer:      A student who completes two or more high school CTE courses for a total of two or more credits and			

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# TEA

# **PROJECT TIMELINE**

#### September 2021 – August 2023

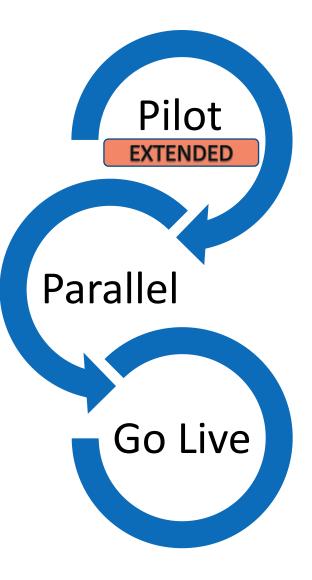
- **Optional**: TSDS vendors can participate in pilot program to develop and test their product solutions.
- Optional: LEAs can partner with their vendors to conduct end-to-end testing in preparation to parallel submission.

#### August 2023 – August 2024

- **Required**: All TSDS vendors test their product solutions.
- Optional: LEAs will submit both API transactions and XML submissions and compare results to ensure vendor readiness.

#### August 2024 – August 2025

- Required: All LEAs will submit their TSDS official data through API transactions.
- XML submissions no longer accepted for TSDS.



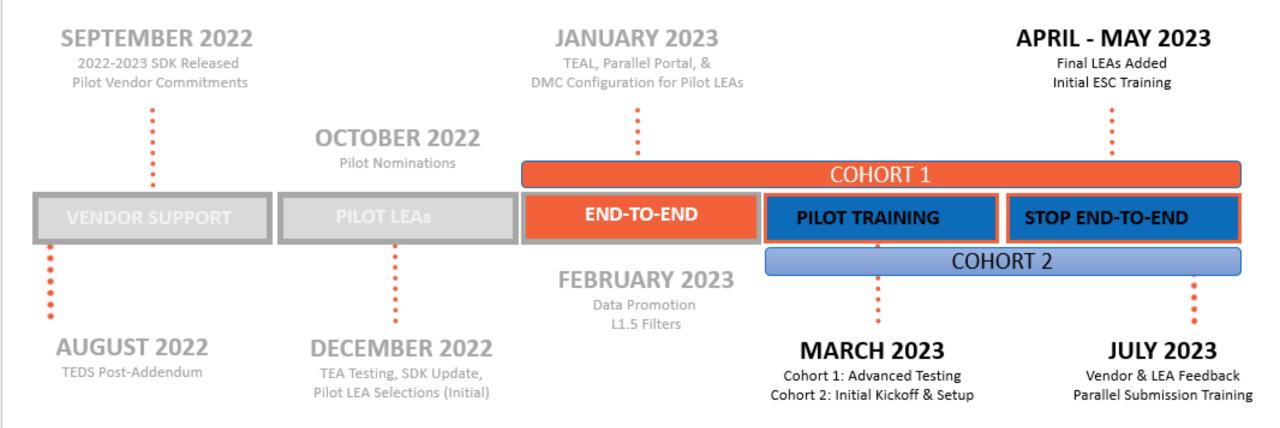






# **TIMELINE OF EVENTS**







# TEA

# **PILOT PROGRAM FUNCTIONALITY**

#### **RECENTLY RELEASED**

- TEA-defined claim sets:
  - HR Vendor
  - Finance Vendor
  - HR/Finance Vendor
  - SIS/HR/Finance Vendor
- Data Management Center (DMC)
  - Level 1.5 Filter Details

#### **IN PROGRESS**

#### TEA-defined claim sets:

- Assessment Vendor
- Read Only All Resources
- Data Management Center (DMC)
  - Manage Claim Set Functionality
  - Level 2 Validations
- Software Development Kit (SDK)
  - Update Coming End of March



# PILOT PROGRAM ACCOMPLISHMENTS





#### **PROGRESS REPORT**

#### Data Published:

- 4 vendors have published for 7 LEAs
- 620,000 resources published to 30 entities

#### Data Promoted

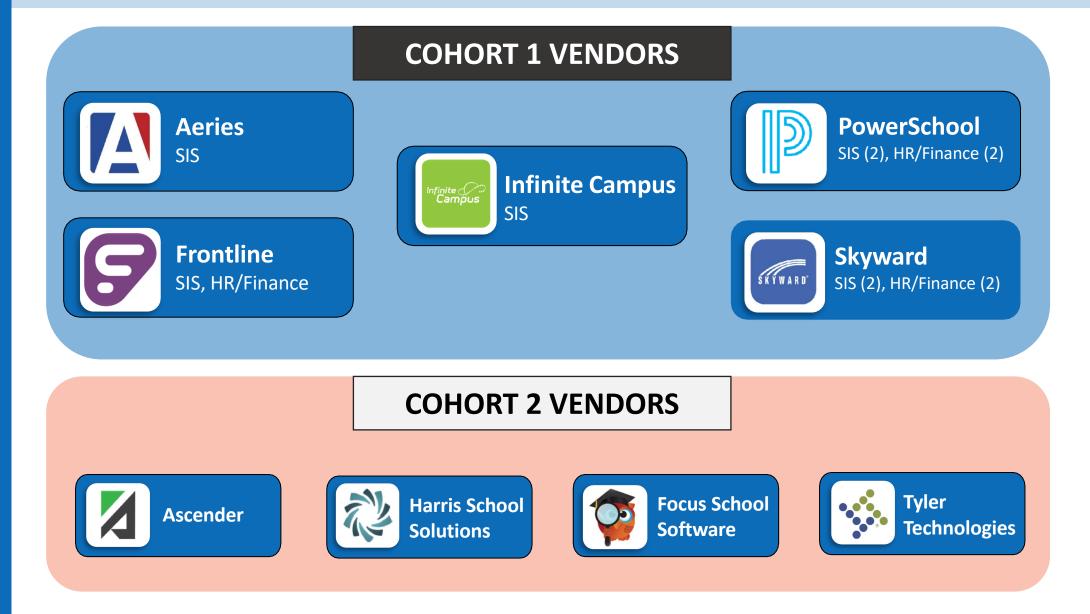
- 6 LEAs have promoted to PEIMS or CORE
- 90,200 records for PEIMS Fall
- 69,900 records for Class Roster Fall
- Support Tickets
  - 146 support tickets submitted





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### **PILOT PROGRAM VENDORS**





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#### **COHORT 1: PILOT LEAS**

Edna ISD





**Princeton ISD** 











San Benito CISD



**Sharyland ISD** 



#### **COHORT 2: PILOT LEAS**



#### Cedars International Academy



ISD Coppell ISD



**Perryton ISD** 





Sweetwater ISD





# TEA

# **SCALING THE PILOT PROGRAM**







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## **BREAKDOWN OF LEAS BY VENDOR**

Edna ISD, Keller ISD, Moody ISD



Eagle Pass ISD, Gainesville ISD, Gladewater ISD, Gold-Burg ISD, Leon ISD, Perryton ISD, Sweetwater ISD, Woodville ISD



Fort Worth ISD, Little Elm ISD, Richardson ISD, Texas Tech University K-12



**Cedars International Academy** 





Basis Texas, Bryan ISD, Hurst-Euless-Bedford ISD, Lorena ISD, San Angelo ISD, Tomball ISD, Uplift Education



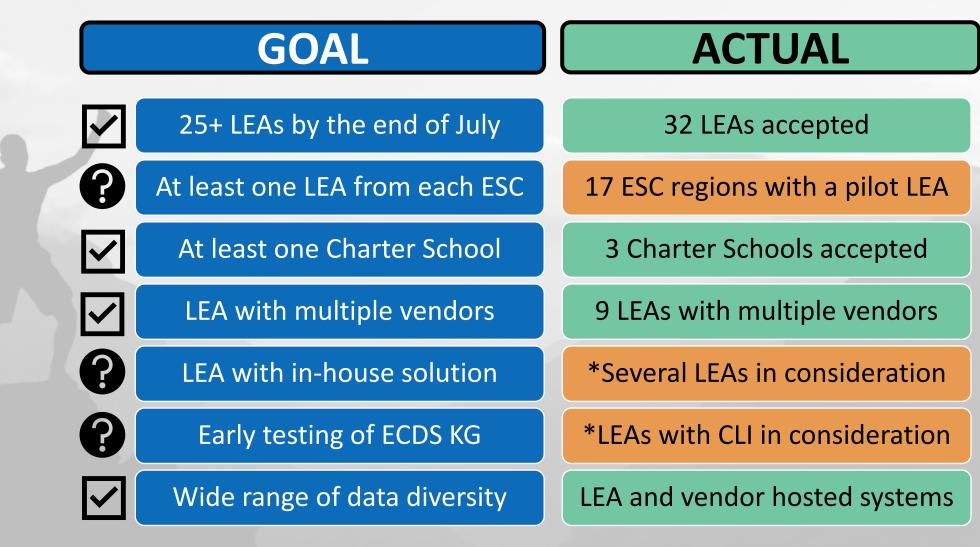
Lake Worth ISD, Royse City ISD, San Benito CISD, Sharyland ISD



Coppell ISD, Ysleta ISD

# TEA

# **ACHIEVING PILOT PROGRAM GOALS**



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\* TEA may add LEA(s) to fulfill this goal later in Pilot



#### Will additional LEAs be added to the Pilot Program?

TEA is not expecting to accept any additional LEAs to the 2022-2023 Pilot Program after April 2023. All accepted LEAs were informed on or before March 20, 2023. LEAs were accepted based upon discussion and coordination with their pilot vendor(s) and the goals of the pilot program.

Any LEA that has previously expressed interest through the LEA Nomination Form and was not included in the 2022-2023 Pilot Program will be accepted for the 2023-2024 Parallel Submission.





# Will LEAs currently participating in the Pilot Program be automatically included for the 2023-2024 Parallel Submission?

Yes. All LEAs currently participating in the Pilot Program will be included in the list of accepted LEAs for the 2023-2024 Parallel Submission. They will be informed of their acceptance prior to the start of school year.





# When will ESCs be able to start testing their own PEIMS data submissions?

An ESC may start testing their PEIMS Fall data submission in the 2022-2023 Pilot Program based upon their vendor's readiness and capacity. Please coordinate with your vendor and contact <u>TSDSDeployment@tea.texas.gov</u> if interested.

All ESCs will be expected to participate in the 2023-2024 Parallel Submission and test their data submissions for PEIMS Fall and PEIMS Mid-year.





# How and when will LEAs be accepted for the 2023-2024 Parallel Submission?

TEA will be sending additional correspondence in May 2023 to all LEAs to solicit participation for the 2023-2024 Parallel Submission. Any LEA that has previously submitted their interest through the LEA Nomination Form will not need to apply again. TEA will coordinate with their vendor(s) and ESC prior to LEA acceptance. LEAs will be informed of their acceptance prior to the start of the 2023-2024 school year.

More information will be shared in the upcoming FCN webinars as it becomes available.







#### TEA

#### **LEVELS OF VALIDATIONS**

#### LEVEL 1

Includes basic data integrity checks that occur during the process of loading data via API transactions into the Individual Operational Data Store (IODS) in the Landing Zone. Data that fails Level 1 validations does not enter the IODS.

# **LEVEL 1.5**

Includes filters that prevent invalid or non-TSDS data from being loaded into TSDS. These filters include Unique ID checks, descriptor value checks, Do Not Report flag checks, and Course ID checks.

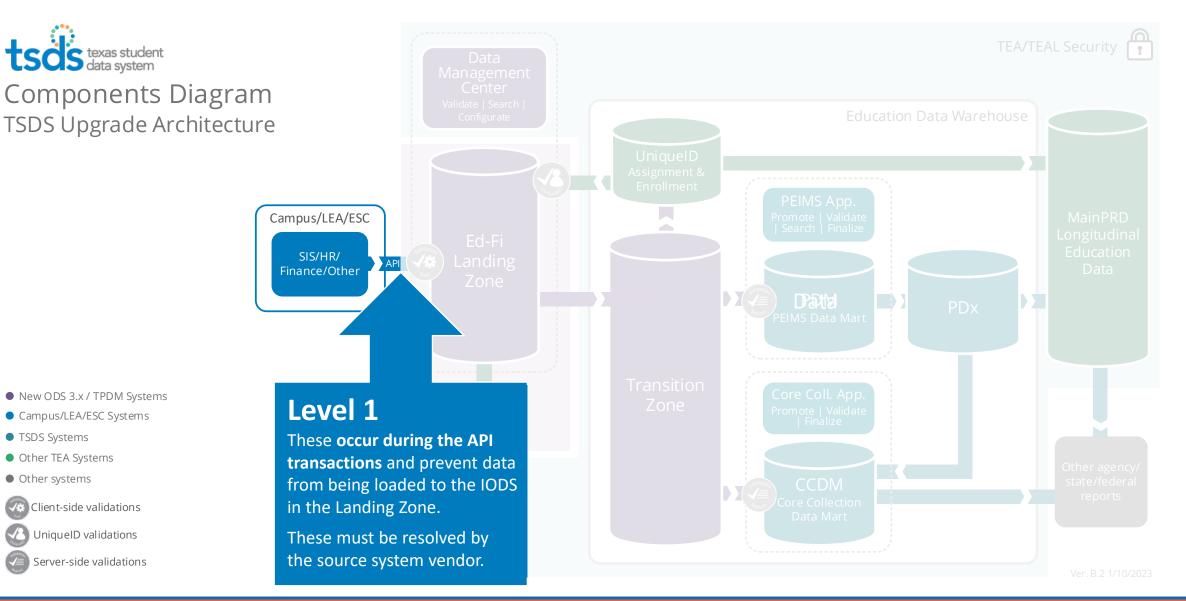
## LEVEL 2

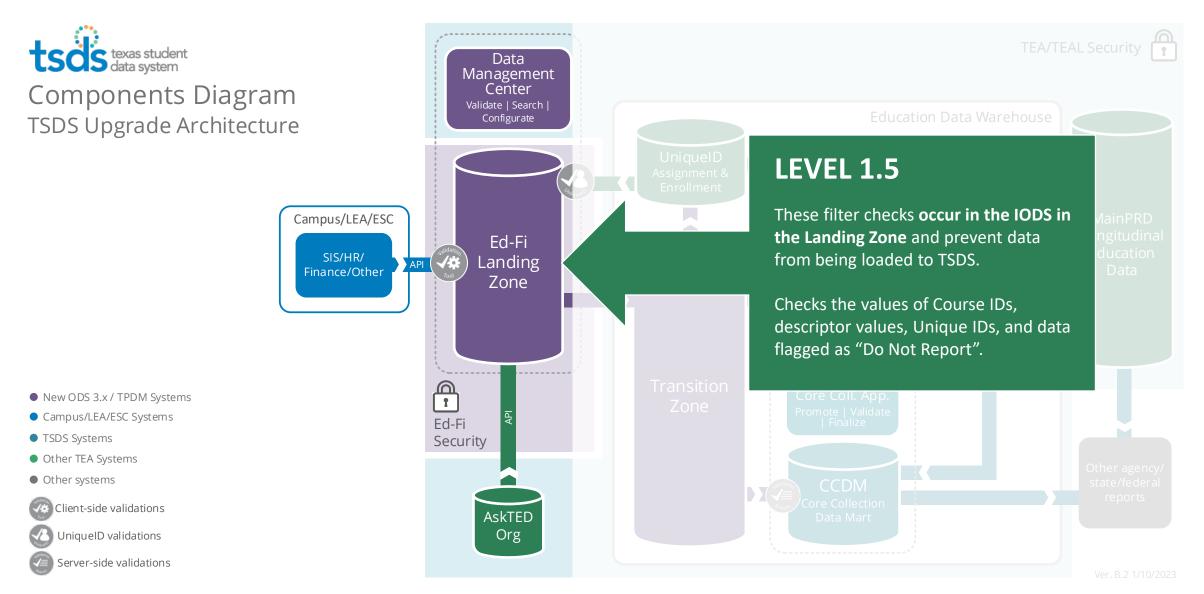
Business rules that are executed on the data destined for TSDS. Fatal, Special Warning, and Warning validation errors do not prevent data from being loaded to TSDS.

#### LEVEL 3

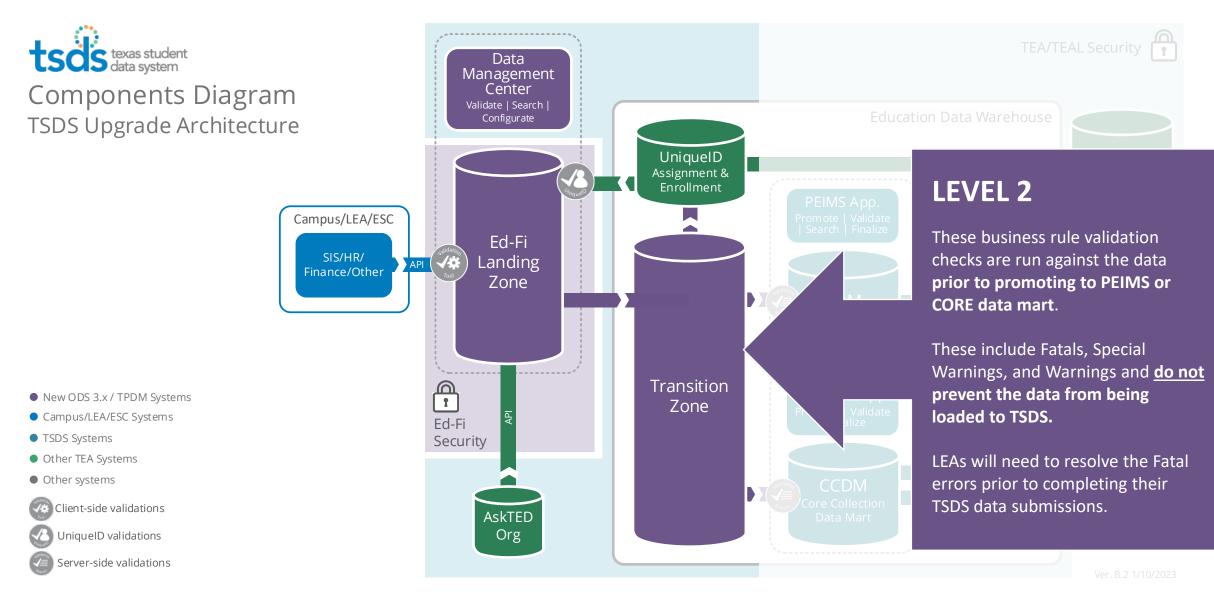
Business rules that are executed in TSDS. Level 3 validations contain all Level 2 validations, plus any additional validations required for the TSDS submissions. Fatal errors prevent TSDS submissions from being completed or finalized.



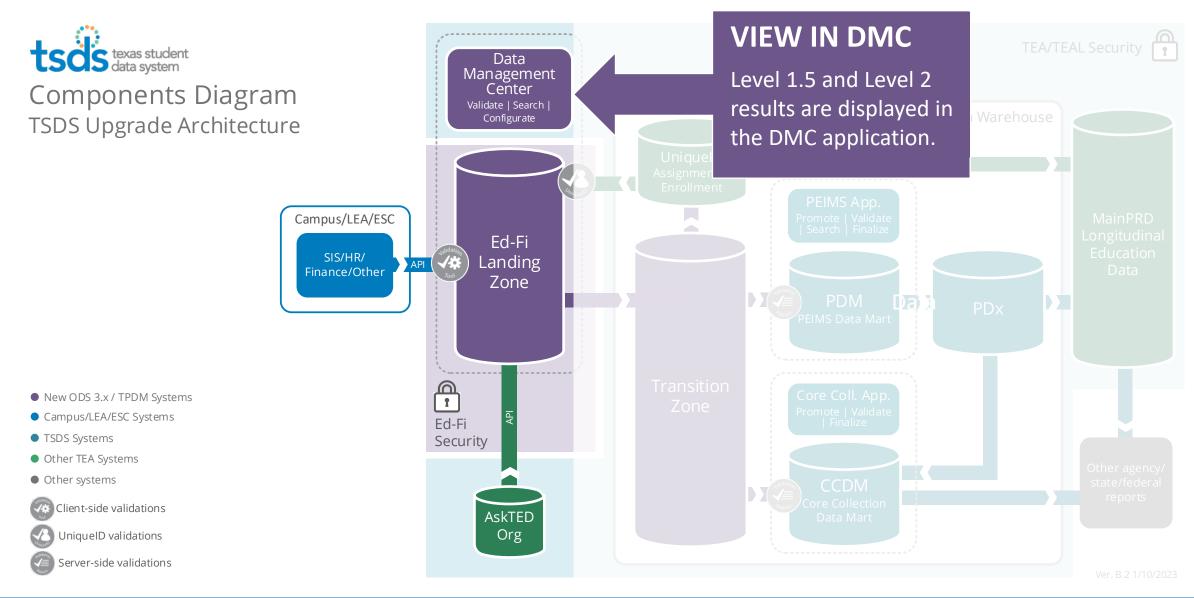




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#### tsos texas student data system

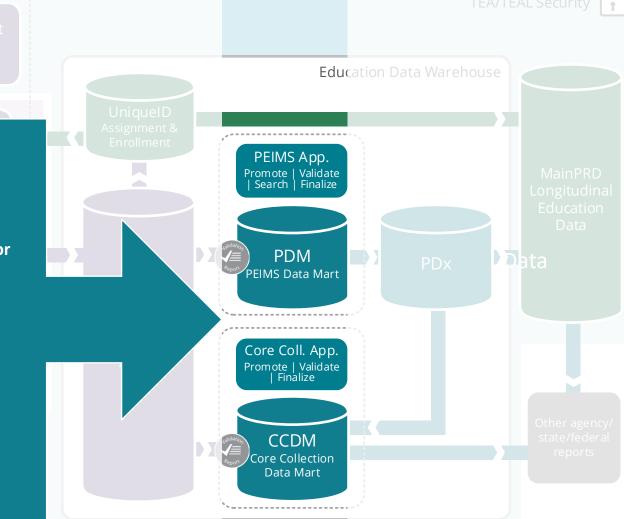
Components Diagram TSDS Upgrade Architecture

#### LEVEL 3

These business rule validation checks are run against the data **after promoting to the PEIMS or CORE data marts**. These will include some validations that could not be run at Level 2.

These include Fatals, Special Warnings, and Warnings.

LEAs will need to resolve the Fatal errors prior to completing their TSDS data submissions.



• New ODS 3.x / TPDM Systems

- Campus/LEA/ESC Systems
- TSDS Systems
- Other TEA Systems
- Other systems

Client-side validations

B UniqueID validations

Server-side validations

/er.B.2 1/10/2023



#### How will LEAs be informed of Level 1 validation errors?

Level 1 validations occur during the API transactions from the LEA's source system(s) to the IODS in the Landing Zone. The LEA's source system vendor(s) would be responsible for informing the LEA of any Level 1 validation errors through their products or reporting.

Any data that results in a Level 1 validation error will <u>not</u> be loaded into the IODS in the Landing Zone.





#### **Does the LEA need to resolve Level 1.5 filter results?**

It would depend on whether the data was intended and expected to be used for TSDS data submissions. Any data identified in the Level 1.5 filter results will <u>not</u> be loaded to the Transition Zone and will <u>not</u> be made available to promote to the PEIMS and CORE data marts. These results would need to be resolved to be loaded for TSDS reporting.

An LEA may have data loaded to their IODS that is intended for local use. This data may be displayed as a Level 1.5 filter result and would not need to be resolved, as it would not be reported to TEA.





#### How do Level 2 and Level 3 validation differ?

Level 2 validations are the business rules that are run against the data prior to promoting to the PEIMS and CORE data marts. These validations do not prevent the data from being loaded to TEA's Transition Zone and do not need to be resolved. An LEA would be able to view the Fatals, Special Warnings, and Warnings in the DMC application.

Level 3 validations include all Level 2 validations, plus any additional business rule validations required for the TSDS submissions. These validations are executed when promoting the data to the PEIMS and CORE data marts. Fatal errors would need to be resolved prior to completing any TSDS data submission.







## TEA

## **DATA MANAGEMENT CENTER**

#### What the demo will be covering:

#### **TEAL ROLES**

#### LEA Technical Administrator:

- DMC LEA Technical
- DMC LEA Admin Configurator

#### LEA Data Steward:

- DMC LEA Data Monitor
- DMC LEA L2 Validations



- Administrator Functionality:
  - Manage Claim Sets
  - Manage Keys and Secrets
  - Map Descriptors
- Monitor Validations Functionality:
  - View L1.5 Filter Details





# Can an LEA add multiple applications configured with claim sets in the DMC application?

Yes. The LEA can add multiple applications in the DMC application and generate different key and secret credentials based upon the claim set assigned. For instance, an LEA could have one application configured for their SIS vendor, one for their HR/Finance vendor, and one for their ECDS assessment vendor.





Does the key and secret need to be generated every school year?

No. An LEA will not need to generate a new key and secret every school year. The LEA would only need to generate a key and secret when a new application is added or if they switch source system vendors.





If the Level 1.5 filter result is marked as "verified", is it stored at the user level or at the LEA-level?

Any Level 1.5 filter result marked as "verified" will be stored the same for all DMC users at the LEA. This indication allows the LEA to easily identify results that have been previously reviewed in the DMC application.





When does the LEA need to perform descriptor mapping?

The LEA would need to perform the necessary descriptor mapping for any descriptor value that is loaded into the IODS that does not match a TEDS defined code value and is intended to be used for TSDS reporting.

Example: "*High School Diploma*" is loaded to the IODS, but the LEA wants to report "No Degree" for TSDS purposes. The LEA would map "High School Diploma" to "0 (No Degree)" in the DMC application.





If the source system vendor loads the TEDS defined code values to the IODS, does the LEA need to perform descriptor mapping in the DMC application?

The LEA would not need to perform descriptor mapping in the DMC application for data loaded into the IODS with TEDS defined code values. Additionally, if the LEA and/or vendor performs cross-walks or mapping of the data prior to sending to the IODS, then descriptor mapping in the DMC application may not be needed. LEAs should verify and confirm any descriptor values marked as "unmapped" in the DMC application.





#### Will ESC users be able to access their LEA's data in the DMC?

TEA is still in the process of defining the DMC application access requirements for ESCs as it pertains to their LEAs. The expected access being considered is view-only access to LEA claim sets, Level 2 validations, and summary tables displaying IODS data and validation information.

Because of potential local use, the current design is not expecting to give ESC users access to an LEA's L1.5 filter details. ESCs who need to access these filters to support their LEAs would need to request TEAL access at the LEA level.





# Will ESC users be able switch between their LEAs within the DMC application?

Yes. ESC users will be able to switch between their organization and their LEAs by using the dropdown header in the DMC application.







# COHORT 1: TRAINING STRATEGY & PLAN tsds



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# **STRATEGY: SUPPORT & OBSERVATION**

Ensure testing progress of frequent and incremental releases of TSDS functionality. TEA <u>proactively supports</u> LEAs with resources that promote self-learning and limit the need for instructor-led trainings. ESCs observe training and guidance.

#### **Self-Guiding Resources:**

TEA promoted self-learning through click sheets and how-tovideos for more intuitive features and then conducted a Level 1.5 Filter Details training course with interaction and demonstration.

#### Weekly Assignments:

TEA provided week-by-week assignments for LEAs to ensure progress and limit time commitments. LEAs received support from TEA and provided feedback through weekly meetings.



# COHORT 2: TRAINING STRATEGY & PLAN tsds



# **STRATEGY: TRAINING WHEELS**

Determine the effectiveness of the training resources previously developed with Cohort 1. TEA <u>reactively supports</u> LEAs by offering assistance and guidance only when requested. TEA begins to rely upon ESCs to monitor progress and support.

#### **Launch Meeting:**

TEA provided all self-guiding resources to LEAs and ESCs during the kickoff launch meeting of Cohort 2 through an online site. LEAs completed click sheets and resources at their own pace.

#### **TIMS Support:**

LEAs expected to submit issues through TIMS for any support needed. ESCs begin to get involved in supporting the LEAs. TEA expected to conduct monthly webinars for support and guidance.



# FINAL PILOT: TRAINING STRATEGY & PLAN tsds

# **STRATEGY: START ON THEIR OWN**

Promote knowledge transfer and training to ESCs to support their Pilot LEAs. ESCs will provide direct training and support to assist with access, DMC configuration, and oversight of data loads.

#### **Resources and Training:**

TEA provides access to the click sheets, how-to-videos, and additional resources. TEA offers instructor-led training (as needed) and provides guidance on functionality as it is released.

#### **Mentorship and Support:**

TEA continues to mentor and support ESCs with Just-In-Time (JIT) training, FCN webinars, and with direct interaction. Training materials continues to be refined based upon feedback.



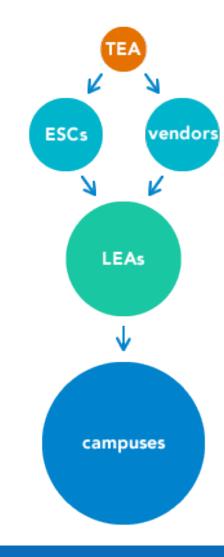
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# PARALLEL YEAR: TRAINING STRATEGY & PLAN tsds

#### **TRAIN-THE-TRAINER**

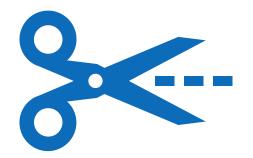
- TEA will follow the same train-the-trainer model for the TSDS Upgrade Project as it is for TSDS currently:
  - Just-In-Time (JIT) Training
  - New User Training (offered in October and February)
  - Continuing Education Training (CET)
  - Field Coordination Network (FCN)

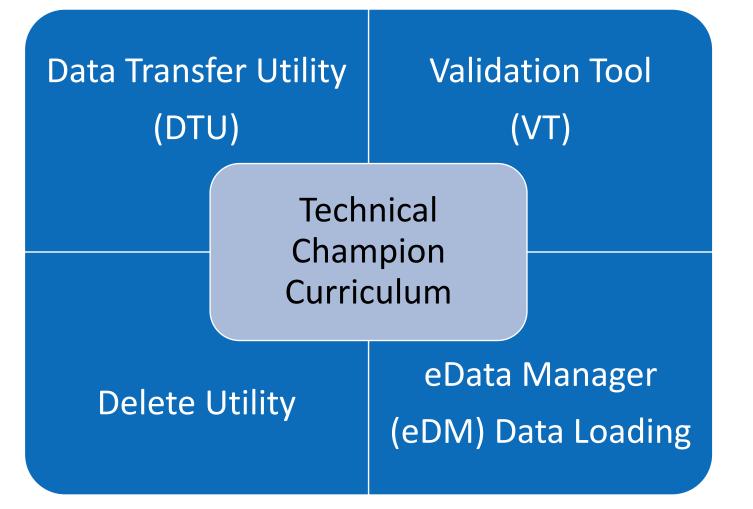
 TEA will provide certification to ESCs and vendors so they can offer training and support to their LEAs.





# TRAINING COURSES: TO BE REMOVED tso







# **TRAINING COURSES: TO BE ADDED**





#### **COURSES**

DMC LEA/ESC Technical

- DMC LEA/ESC Data Monitor
- DMC LEA/ESC L2 Validations

DMC LEA/ESC Admin Configurator

#### **CERTIFICATIONS**

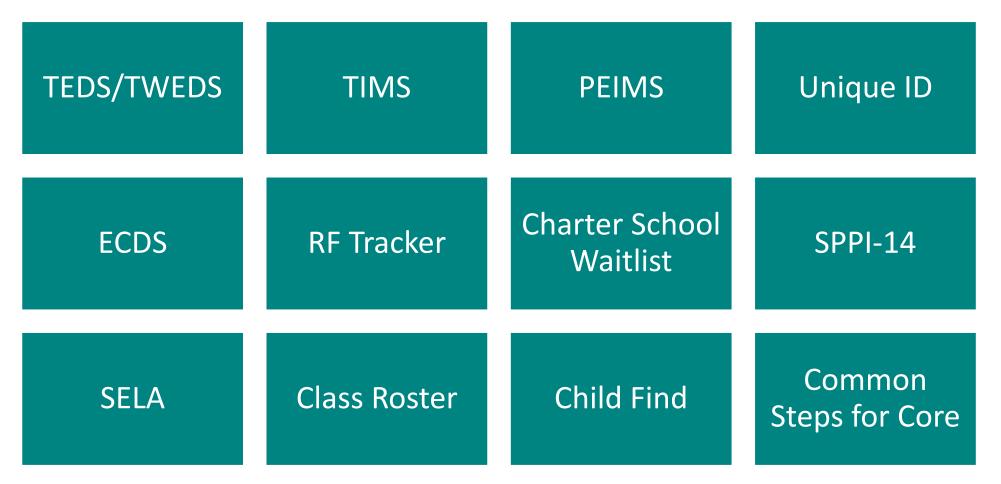
**TSDS DMC Technical Champion** 

**TSDS DMC Administration & Security Champion** 



# TRAINING COURSES: NOT CHANGING





\*These courses will be updated to reflect the TSDS Upgrade Project.



# TSDS TRAINING ADVISORY GROUP (TTAG) tsds

- TEA is in the process of establishing TSDS Training Advisory Groups to assist in the vetting and refinement of TSDS materials.
- The TSDS training team will begin soliciting volunteers in April 2023.
- Additional information and estimated time commitments will be provided during that outreach.



#### Welcome Back!





#### Will ESCs and vendors need to get recertified for all TSDS?

All current TSDS Technical Champions will need to complete all new DMC courses and certification testing to be certified as a TSDS DMC Technical Champion.

All current TSDS PEIMS Champions and TSDS Core Champions will not need to be recertified but will be required to attend all continuing education training (CET) for the TSDS Upgrade Project.





# When will the ESCs and certified vendors begin receiving training on the TSDS Upgrade Project?

TEA will offer training to ESCs and certified vendors beginning in July 2023.

Just-in-time (JIT) and continuing education training (CET) offerings will be offered throughout the 2023-2024 school year on the TSDS Upgrade Project.

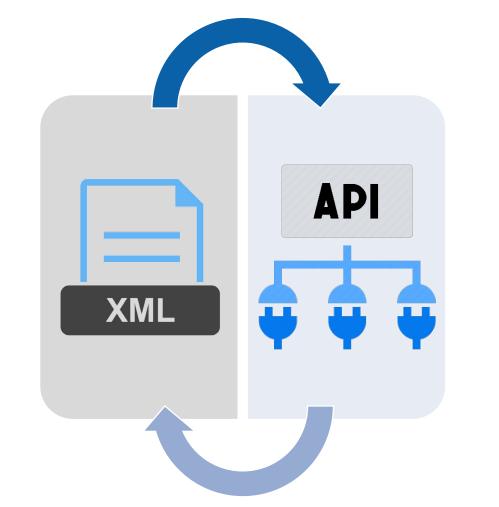




# **NEXT STEPS**

# TEA

# 2023-2024: PARALLEL SUBMISSION



#### REQUIRED For All Vendors OPTIONAL For LEAs & ESCs

- LEAs will compare XML data against API transactions through TSDS reports and validations.
- All TSDS submissions are expected to be compared by the submission due dates.
- XML will be used for official TSDS reporting.





LEAs will be nominated, selected, and approved to participate in the parallel submission. Recommending **250+ LEAs**.

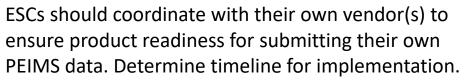
# HOW TO PREPARE FOR PARALLEL SUBMISSION



ESCs should inform their LEAs in their region of the TSDS Upgrade Project and the opportunity to participate in the 2023-2024 Parallel Submission.



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ESCs should identify any LEA that may have an in-house or custom solution for generating XML files. A migration plan will be necessary.



ESCs should schedule the training for their LEAs participating in the 2023-2024 Parallel Submission. TEA will begin training ESCs this Summer.



# **HOW CAN TEA SUPPORT YOU?**

#### **FCN** Webinars

Let us know what additional information, topics, and guidance TEA can provide in upcoming FCN webinars.

### **Technical Resources**

Let us know what additional technical resources TEA should consider and prioritize to assist your ability to support LEAs.

#### **Training Materials**

Let us know what feedback you have on training resources and materials to ensure the most effective knowledge transfer.

## LEA Guidance

Let us know what additional communications and guidance TEA can provide directly to LEAs or statewide through webinars.



## TEA

# **KEY TAKE-AWAYS**



New resources have been published on the Texas Education Data Standards website.



Additional LEAs were added to the Pilot Program. Identify the LEA(s) added for your region.



TEA will begin training ESCs to onboard the remaining Pilot LEAs. TEA will offer additional mentorship and support.





Start preparing for the 2023-2024 Parallel Submission and reach out to TEA for specific needs and considerations.

#### **DMC DEMO**

- TEAL Roles for LEAs:
  DMC LEA Technical
  DMC LEA Data Monitor
- Generating Key and Secret:
  Add Application
  Specify Claim Set
  Provide to Vendor
- Level 1.5 Filter Details:
  Unique ID Checks
  Descriptor Mapping
  Resolution Needed for TSDS



