



TSDS Upgrade Project

TEDS Overview

KEY TERMS

Common Type
Data Element
Data Management Center (DMC)
Descriptor Table/Value
Domains
Ed-Fi Data Standard
Entities
Individual Operational Data Store (IODS)
Publish
Texas Education Data Standards (TEDS)
TSDS Web-Enabled Data Standards (TWEDS)

You can find the definitions to these key terms and more here: [Link to Key Term Document](#)

LEARNING OBJECTIVES

By the end of this course, the user will be able to explain:

- What the Ed-Fi Data Standard is and how the Texas Education Data Standards (TEDS) are a subset of them.
- Why TEA is updating TEDS to be in alignment with the Ed-Fi Data Standard version 4.
- How some of the information about a student's participation in a program and service will be reported differently in the TSDS Upgrade.
- How to navigate through the new TSDS Web-Enabled Data Standards (TWEDS) to see some of the high-level changes from TEDS 1.x to 4.x.

WHY IS THIS COURSE IMPORTANT

- To provide an overview of the key changes to Texas Education Data Standards (TEDS) as a result of the TSDS Upgrade Project.
- The goal is to ensure the ESC/Certified Vendors understand and can teach these key changes to effectively support LEAs when TEA goes live with the TSDS Upgrade Project.

COURSE AGENDA

GETTING STARTED

Ed-Fi Data Standard, TEDS, and Go-Live

Key Concepts

TEDS Changes, Student Characteristics, and TWEDS Updates

Training Activities

Troubleshooting and Knowledge Checks

WRAP-UP

Key Takeaways, Resources, and Next Steps



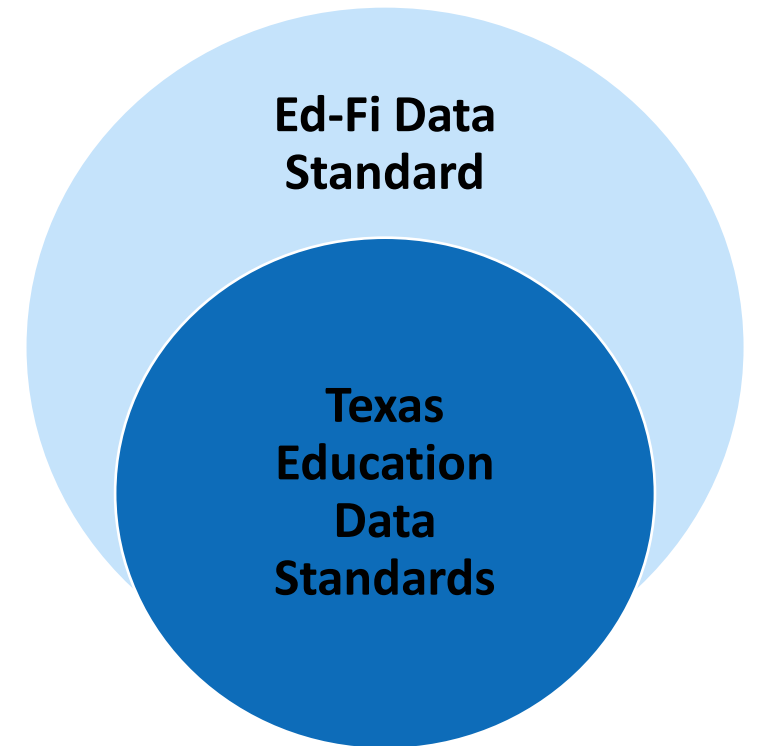


GETTING STARTED

Ed-Fi Data Standard, TEDS, and Go-Live

WHAT IS TEDS?

- The **Ed-Fi Data Standard** is the set of rules for the collection, management, and organization of educational data that allows multiple systems to share their information in a seamless, actionable way.
 - TEDS is a **subset** of the Ed-Fi data standard.
- Refer to the [Operation Data Store \(ODS\) Upgrade Texas Education Data Standards](#) for detailed documentation.



WHY TEDS IS BEING UPDATED?

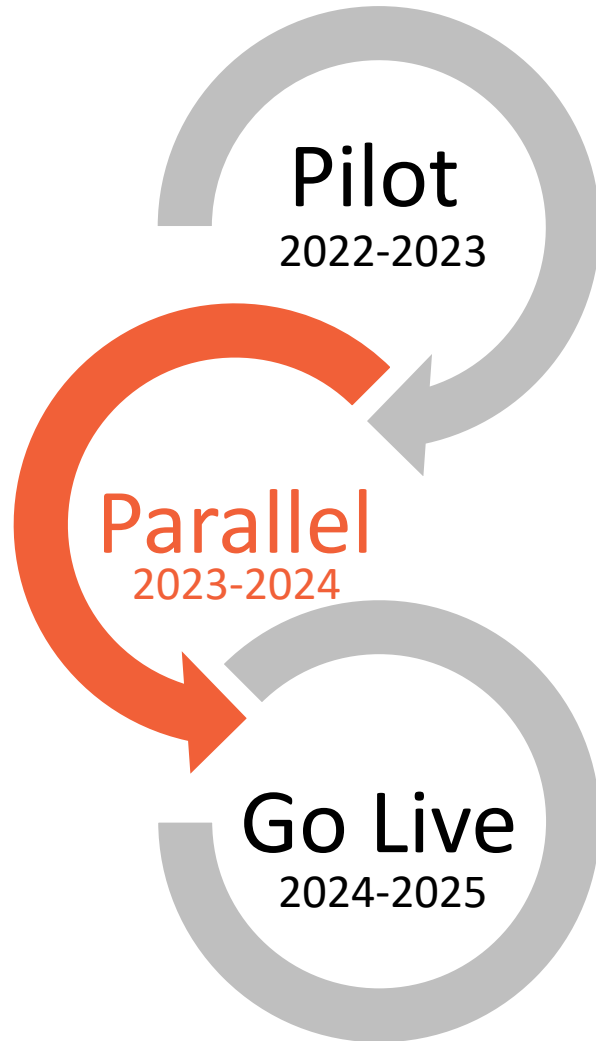
TSDS is **three major versions behind** the current version of the Ed-Fi standard.

Most new TSDS data collections require **TEA extensions** for implementation.

Would allow for **better alignment** for vendors with Ed-Fi based products.



HOW WAS TEDS USED IN PARALLEL?



Participating LEAs in Parallel Year

Ed-Fi
Version 4.x

API

TEDS PDF

ALL LEAs

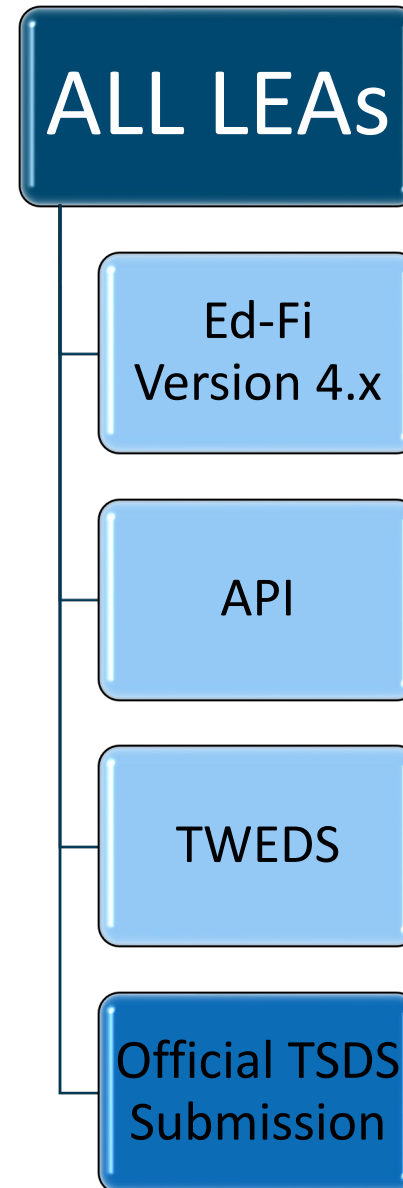
Ed-Fi
Version 1.x

XML

TWEDS

Official TSDS
Submission

HOW WILL TEDS BE USED WHEN WE GO-LIVE?

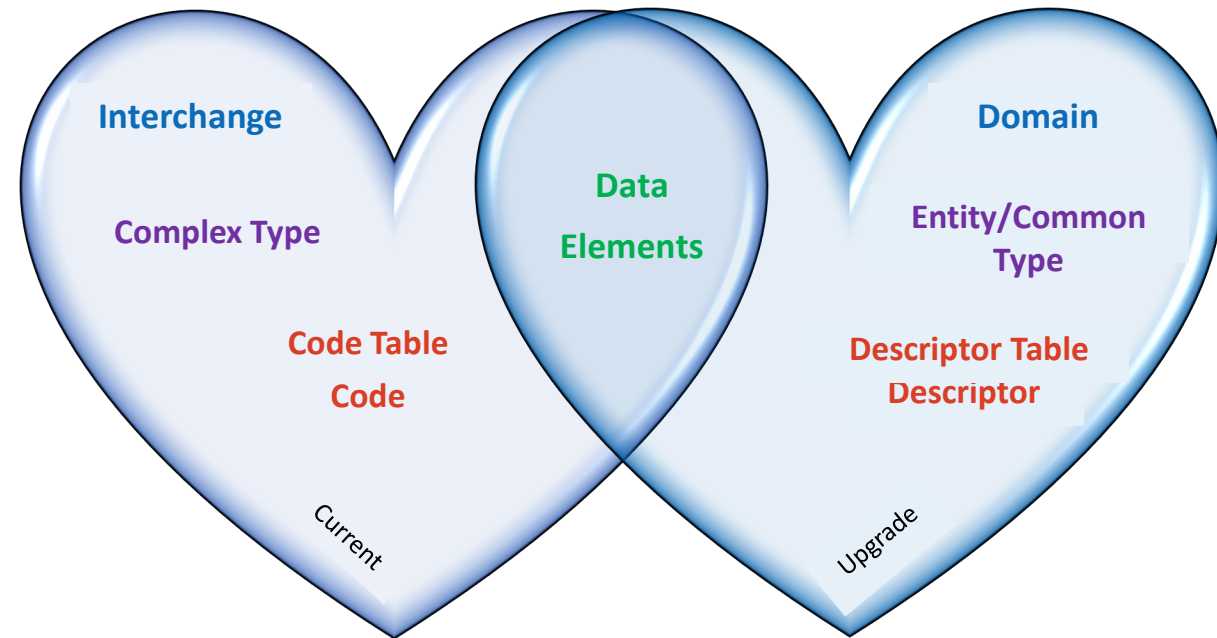




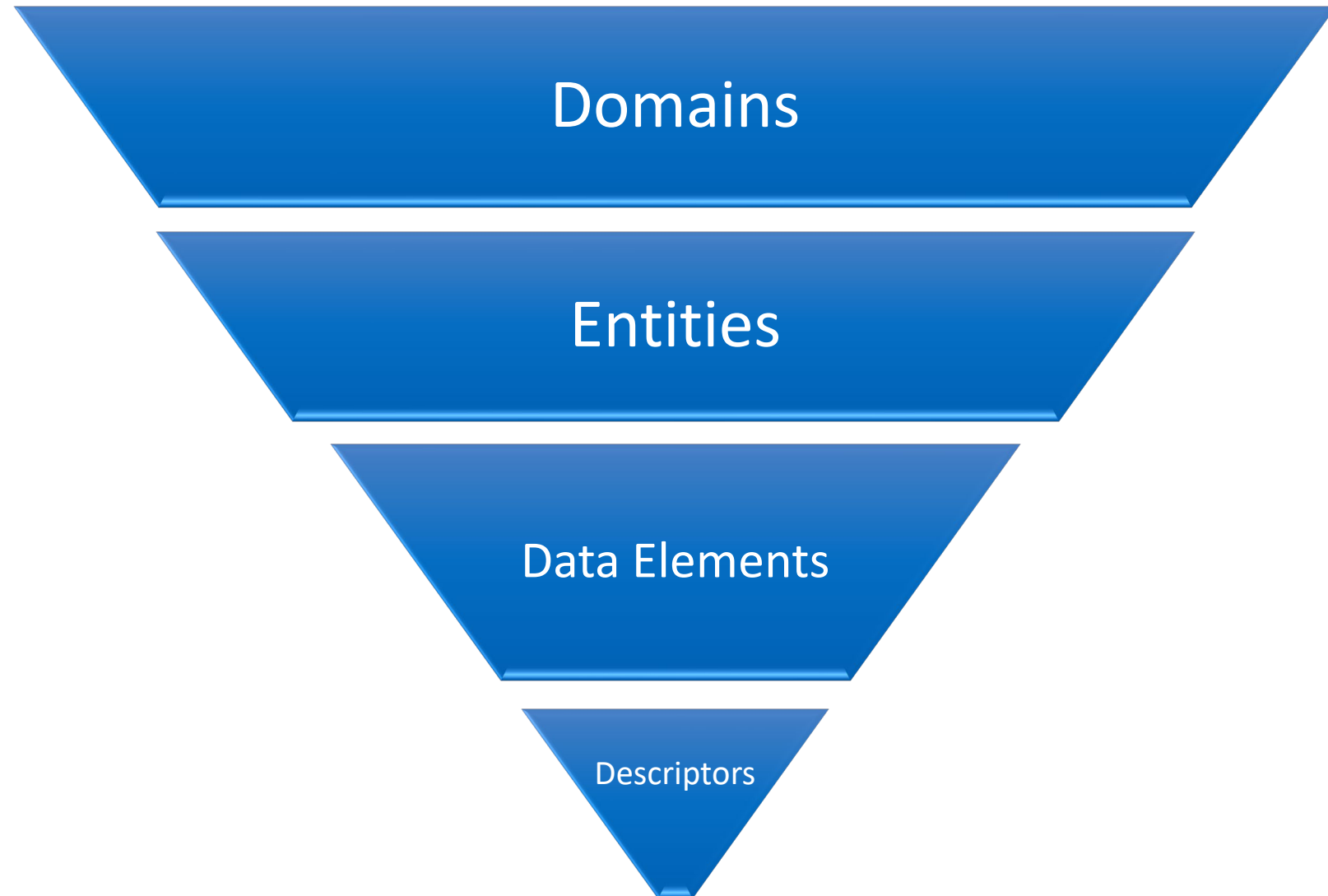
KEY CONCEPTS

TEDS Changes, Student Characteristics, and TWEDS Updates

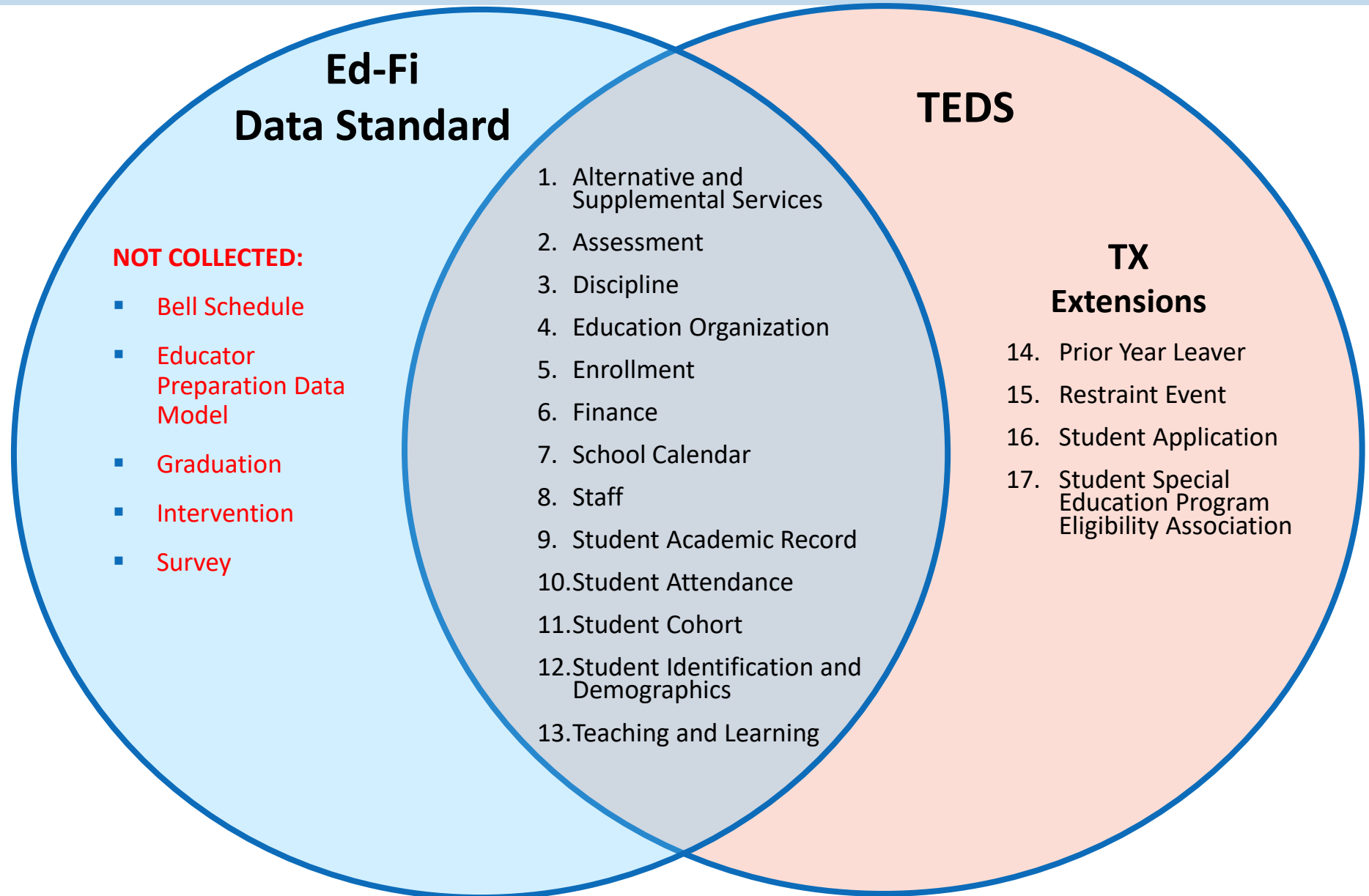
- **Domain:** the highest-level grouping of data elements. Domains are divided into **entities**.
- **Entity:** a group of related **data elements** and **common types** within a **domain**.
- **Common Type:** a grouping of related **data elements** that are within the **entity**.
- **Data Element:** a unit of data defined in the **TEDS data standards**.
- **Descriptor Table:** a defined set of values that may be submitted for a given **data element**.



HIERARCHY OF DATA STANDARDS



ED-FI CORE AND TEXAS EXTENSIONS



TEDS DATA ELEMENT CHANGES

NO CHANGE

- FIRST-NAME
 - 1.x: FIRST-NAME (E0703)
 - 4.x: FirstName (E0703)
 - Same Data Element ID, Name and Definition

SIGNIFICANT CHANGE

- Student Characteristic
 - 1.x: 20+ data elements about student characteristics
 - E.g., At Risk (E0919), Immigrant (E0797) Migrant (E0984), Dyslexia (E1530), etc.
 - 4.x: 1 data element
 - StudentCharacteristic (E3063) - NEW

SIMPLE CHANGE

- DISCIPLINARY-ACTION-REASON-CODE
 - 1.x: DISCIPLINARY-ACTION-REASON-CODE (E1006)
 - 4.x: Behavior (E1006)
 - Same data element definition using the same code/descriptor table, but different name of the data element.

NEW DATA ELEMENTS

- Effective Dating
 - 4.x: Begin & End Dates will be required to be reported with most data elements.
 - E.g., EconomicDisadvantage (E0785)
 - BeginDate (E3010)
 - EndDate (E3020)
- New data elements in the upgrade are identified by numbers beginning with '3'.

TEDS DESCRIPTOR CHANGES

NO CHANGE

- PK-CURRICULA-CODE
 - 1.x: PK-CURRICULA-CODE (C206)
 - 4.x: PKCURRICULA (C206)
 - Same descriptor table and name

SIGNIFICANT CHANGE

- PARTICIPATION-INDICATOR-CODE (C088)
 - 1.x: PARTICIPATION-INDICATOR-CODE (C088)
 - E.g., 0-No, 1-Yes
 - 4.x: StudentCharacteristic (C344) (NEW)
 - E.g., 01 – At Risk, 02 – Immigrant, 03 – Migrant, 04 – Dyslexia, etc.
 - Moved 20+ data elements about student characteristics into the new C334 descriptor table

SIMPLE CHANGE

- POPULATION-SERVED-CODE
 - 1.x: POPULATION-SERVED-CODE (C030) & POPULATION-SERVED-CODE (DC091)
 - 4.x: PopulationServed (C030)
 - Merged PEIMS and TSDS Code tables into one descriptor table.

NEW DESCRIPTOR TABLE

- TRUANCY
 - 1.x: E1657, E1658 & E1659
 - 4.x: Truancy (C346) (NEW)
 - 01 – Excessive Unexcused Absences
 - 02 – Truancy Prevention Measures
 - 03 – Truancy Complaint Filed
 - Merged the three data elements on truancy into the new C346 descriptor table
- New descriptor tables in the upgrade are identified by numbers beginning with '3'.



STUDENT CHARACTERISTICS

Walkthrough

- To align with the Ed-Fi 4.x data standard, TEA has combined multiple data elements into corresponding descriptor tables to streamline the data collection process.
- Few examples of where we have combined multiple data elements into corresponding descriptor tables:
 - StudentCharacteristic (**E3063**)
 - SpecialEducationProgramService (**E3058**)
 - Responsibility (**E3051**)
 - LanguageInstructionProgramService (**E3034**)
 - CTEProgramService (**E3012**)
 - Languages (**E3035**)
 - Language (**E3033**)
 - Truancy (**E3068**)
 - EndorsementPursuing (**E3022**)
 - EndorsementCompleted (**E3021**)
- These data elements begin with the number '3' to indicate they are new data elements in TEDS for the Ed-Fi 4.x upgrade.

STUDENT CHARACTERISTICS

Ed-Fi 1.0		
Element ID	Data Element Name	PARTICIPATION-INDICATOR-CODE (C088)
E0919	AT-RISK-INDICATOR-CODE	C088 (Yes/No)
E0797	IMMIGRANT-INDICATOR-CODE	C088 (Yes/No)
E0984	MIGRANT-INDICATOR-CODE	C088 (Yes/No)
E1530	DYSLEXIA-INDICATOR-CODE	C088 (Yes/No)
E1559	T-STEM-INDICATOR-CODE	C088 (Yes/No)
E1560	ECHS-INDICATOR-CODE	C088 (Yes/No)
E1612	P-TECH-INDICATOR-CODE	C088 (Yes/No)
E1647	NEW-TECH-INDICATOR-CODE	C088 (Yes/No)
E1564	IEP-CONTINUER-INDICATOR-CODE	C088 (Yes/No)
E1601	STAR-OF-TEXAS-INDICATOR-CODE	C088 (Yes/No)
E1649	PK-ELIGIBLE-PREVIOUS-YEAR-INDICATOR-CODE	C088 (Yes/No)
E1603	SECTION-504-INDICATOR-CODE	C088 (Yes/No)
E1602	INTERVENTION-STRATEGY-INDICATOR-CODE	C088 (Yes/No)
E1432	PREGNANCY-RELATED-SERVICES	C088 (Yes/No)
E0034	GIFTED-TALENTED-INDICATOR-CODE	C088 (Yes/No)
E1660	ADULT-PREVIOUS-ATTENDANCE-INDICATOR-CODE	C088 (Yes/No)
E1730	GENERAL-EDUCATION-HOMEBOUND-INDICATOR	C088 (Yes/No)
E1729	PARENT-REQUEST-RETENTION-INDICATOR	C088 (Yes/No)
E1028	BILINGUAL/ESL-SUMMER-SCHOOL-INDICATOR-CODE	C088 (Yes/No)
E1672	ADDITIONAL-DAYS-PROGRAM-PARTICIPATION-INDICATOR-CODE	C088 (Yes/No)
E1735	VIRTUAL-STUDENT-NOT-IN-MEMBERSHIP	C088 (Yes/No)
EXXX	N/A	N/A

20+ Data Elements

Ed-Fi 4.0		
Element ID	Ed-Fi 4.x Data Element Name	StudentCharacteristic (C344)
1 Data Element	E3063	01 – At Risk
		02 – Immigrant
		03 – Migratory
		04 – Dyslexia
		05 – T-STEM
		06 – ECHS
		07 – P-TECH
		08 – New Tech
		09 – IEP Continuer
		10 – Star Of Texas
		11 – PK Eligible Prior Year
		12 – Section 504
		13 – Intervention Strategy
		14 – Pregnancy Related Services
		15 – Gifted And Talented
		16 – Adult Previous Attendance
		17 – Gifted And Talented
		18 – Parent Request Retention
		19 – Bilingual/ESL Summer School
		20 – Additional Days Program Participation
		21 – Virtual Student Not In Membership
		22 – R-PEP Participation

EXAMPLE: HOW STUDENT CHARACTERISTICS WILL BE REPORTED

Ed-Fi 1.0		
Element ID	Data Element Name	PARTICIPATION-INDICATOR-CODE (C088)
E0919	AT-RISK-INDICATOR-CODE	No
E0797	IMMIGRANT-INDICATOR-CODE	No
E0984	MIGRANT-INDICATOR-CODE	No
E1530	DYSLEXIA-INDICATOR-CODE	No
E1559	T-STEM-INDICATOR-CODE	No
E1560	ECHS-INDICATOR-CODE	No
E1612	P-TECH-INDICATOR-CODE	No
E1647	NEW-TECH-INDICATOR-CODE	No
E1564	IEP-CONTINUER-INDICATOR-CODE	No
E1601	STAR-OF-TEXAS-INDICATOR-CODE	No
E1649	PK-ELIGIBLE-PREVIOUS-YEAR-INDICATOR-CODE	No
E1603	SECTION-504-INDICATOR-CODE	No
E1602	INTERVENTION-STRATEGY-INDICATOR-CODE	No
E1432	PREGNANCY-RELATED-SERVICES	Yes
E0034	GIFTED-TALENTED-INDICATOR-CODE	Yes
E1660	ADULT-PREVIOUS-ATTENDANCE-INDICATOR-CODE	No
E1730	GENERAL-EDUCATION-HOMEBOUND-INDICATOR	No
E1729	PARENT-REQUEST-RETENTION-INDICATOR	No
E1028	BILINGUAL/ESL-SUMMER-SCHOOL-INDICATOR-CODE	No
E1672	ADDITIONAL-DAYS-PROGRAM-PARTICIPATION-INDICATOR-CODE	No
E1735	VIRTUAL-STUDENT-NOT-IN-MEMBERSHIP	No

ALL 21 items get reported with a '1' or '0' code value

Ed-Fi 4.0		
Element ID	Data Element Name	StudentCharacteristic (C344)
E3063	StudentCharacteristic	14 – Pregnancy Related Services
		15 – Gifted And Talented

Only 2 items get reported with the descriptor values '14' and '15'

EXAMPLE OF MULTIPLE CHARACTERISTICS

- Multiple instances (Common Type) for a student depending on which ones apply to them.
 - Each student characteristic will have its own descriptor value with a **begin date** and **end date**.

StudentEducationOrganizationAssociation					
..StudentCharacteristic					
<i>(may have multiple instances)</i>	StudentCharacteristic		14	StudentCharacteristic C344	
	Period	BeginDate	2024-08-17	Date	
		EndDate	2025-03-21	Date	

StudentEducationOrganizationAssociation					
..StudentCharacteristic					
<i>(may have multiple instances)</i>	StudentCharacteristic		15	StudentCharacteristic C344	
	Period	BeginDate	2024-08-17	Date	
		EndDate	Null	Date	



**TSDS Web-Enabled Data Standards (TWEDS)
Updates**

WHERE IS TWEDS



Texas Education Data Standards 4.x

tsds texas student data system TSDS Upgrade Project

[Home](#)
[About](#)
[Education Data Warehouse](#)
[TPEIR Public Reports](#)
[TEDS Data Standards](#)
[Technical Resources](#)
[News & FAQs](#)
[Feedback](#)

[TSDS](#) > [TEDS Data Standards](#) > ODS Upgrade Data Standards

Operational Data Store (ODS) Upgrade Texas Education Data Standards

For additional information about the ODS Upgrade TEDS please visit the [TEDS data standards](#). For the current XML-based standards, please visit [TWEDS](#).

The links below provide access to TEDS for the ODS Upgrade data standards.

ODS Upgrade Guidance	Updated
Data Submission Requirements	02/12/2024
References	03/01/2024

Texas Education Data Standards	Released
2024-2025 ODS Upgrade Final Data Standards	
(Version 2025.1.0 based on Ed-Fi 4.0 standards)	
Domains	03/01/2024
All Data Element Definitions	03/01/2024
Descriptor Tables	03/01/2024
Data Validation Rules	03/01/2024
Data Submission Timelines	03/01/2024
Change Log - Cumulative	03/01/2024
Change Log - Descriptor Tables	03/01/2024

ESC Champions

[ESCs 1-10](#)

[ESCs 11-20](#)

TSDS Certified Vendors and ESCs

[Certified Vendors and ESCs](#)

- Go to the TSDS website at <https://www.texasstudentdatasystem.org>
- Hover over the TEDS Data Standards tab
- Next, click on Pilot ODS 3.x Data Standards
- Finally, click on the TWEDS hyperlink near the top, or click on the hyperlink under the current version of TEDS.

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For:

Search By:

Data Elements

Search

Year:

Collection:

Submission:

Submission Instance:

Published Version:

Open

TWEDS XML
2015-2024

Overview

Data Components

Descriptor Table

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Early Notice

Timelines

- The new TSDS Web-Enabled Data Standards (TWEDS) are under construction.
- The July 1, 2024, publication will be completed in new TWEDS.



Minor Changes with New Features!

CURRENT TWEDS (XML 1.X)

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: Data Elements

Year:
Collection:
Submission:
Submission Instance:
Published Version:

Introduction | Data Components | Code Tables | Data Submission | Rules | Change Logs | Early Notice

NEW TWEDS (API 4.X)

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: Data Elements

Year:
Collection:
Submission:
Submission Instance:
Published Version:

Overview | Data Components | Descriptor Table | References | Rules | Change Logs | Early Notice | **Timelines**

TWEDS – SETTING SEARCH CRITERIA

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: Data Elements

Year:
Collection:
Submission:
Submission Instance:
Published Version:

[Overview](#) [Data Components](#) [Descriptor Table](#) [References](#) [Rules](#) [Change Logs](#) [Early Notice](#)

- Year – You will specify the information you wish to view first by school year.
- Collection – Next, you can select to view information for all collections or for a specific data collection.
- Submission – If the collection selected has multiple submissions, you will select the submission, i.e., PEIMS Fall, Class Roster Fall.
- Submission Instance – If PEIMS was selected as the Collection, you can choose the instance, i.e., First or Resub.
- Published Version – You can see the current version of TEDS.
- Open – You will be prompted to click “Open” to set the selected criteria.

TWEDS – TIMELINES BUTTON

- Timelines button provides easy access to the Submission and Resubmission Timelines.

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For:

Search By: Data Elements ▼

Year: Open

Collection: TWEDS XML

Submission: 2015-2024

Submission Instance:

Published Version:

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Overview

2022-2023 TEDS

- Collections
- **Timelines**
- Data Submission Responsibilities

Submission and Resubmission Timelines

PEIMS Extended Year Submission (Sub 4) if applic

PEIMS Extended Year Submission ready for users to promote data	March 27, 2023
TSDS PEIMS Extended Year ready for users to complete, approve, and accept submissions	July 31, 2023
Requests to retire Unique IDs due at TEA for PEIMS Extended Year First Submission	August 25, 2023
PEIMS Extended Year First Submission due date for LEAs	August 31, 2023
Requests to retire Unique IDs due at TEA for PEIMS Extended Year Resubmission	September 15, 2023
PEIMS Extended Year Resubmission due date for LEAs	September 21, 2023

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: **Data Elements**

Year: 2022-23
 Collection: ALL
 Submission: ALL
 Submission Instance: ALL
 Published Version: 2023.2.1

Overview Data Components Descriptor Table References Rules Change Logs Early Notice

Overview
2022-2023 TEDS

- ▾ **Collections**
 - Public Education Information Management System (PEIMS)
 - Charter School Waitlist
 - Child Find
 - Class Roster
 - Introduction to Early Childhood Data System (ECDS)
 - Residential Facility Tracker
 - Special Education Language Acquisition
 - State Performance Plan Indicator 14
- ▾ **Timelines**
 - Public Education Information Management System (PEIMS)
 - Charter School Waitlist
 - Child Find
 - Class Roster
 - Early Childhood Data System
 - Residential Facility Tracker
 - Special Education Language Acquisition
 - State Performance Plan Indicator 14
 - By Due Date
- ▾ **Data Submission Responsibilities**

Overview Tab:

- Overview tab now includes information which was in the Introduction and Data Submission tabs in the old TWEDS.
 - Overview** menu provides a brief introduction to TEDS, PEIMS, and each of the TSDS Data Collections
 - Timelines** menu provides the important dates for each data collection.
 - Data Submission Responsibilities** menu provides data submission specifications and responsibilities for the LEA, ESC and TEA.

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: Data Elements

Year: 2022-23
Collection: ALL
Submission: ALL
Submission Instance: ALL
Published Version: 2023.1.1

[Overview](#) **[Data Components](#)** [Descriptor Table](#) [References](#) [Rules](#) [Change Logs](#) [Early Notice](#)

Data Components
2022-2023 TEDS

- ▶ **Domains**
- ▶ **Categories**
- ▶ **Entities**
- ▶ **Data Elements**

Data Components Tab:

- Same information with some new terminology.

TWEDS – DATA COMPONENTS

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For:

Search By:

Data Elements

Search

Year: 2022-23

Collection: ALL

Submission: ALL

Submission Instance: ALL

Published Version: 2023.1.1

Open

TWEDS XML
2015-2024

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Data Components

2022-2023 TEDS

- ▶ Domains
- ▶ Categories
- ▶ **Entities**
- ▶ Data Elements



Student Identification and Demographics Domain

Student Entity

Data Element	NP*	Core	PEIMS	Length	Data Type	Descriptor Table	Element ID
StudentUniqueld		✓	PS,PE,PF	10	String		E1523
LocalStudentId		✓	PS,PE,PF	9	String		E0923
StudentId		✓	PS,PE,PF	9	String		E0001
GenerationCode		✓	PS,PE,PF		Descriptor	C012	E0706
AsOfStatusLastFridayOctober					Descriptor	C324	E3007
AsOfStatusLastDayEnrollment			SPPI-14 - SPPI-14		Descriptor	C323	E3006
StudentDoNotReportTSDS			RFT - RFT		Boolean		E3009
NonEnrolledStudentUILActivity			CSW - Charter School Waitlist		Descriptor	C234	E1739
StudentCensusBlockGroupSet (may have multiple instances)							
StudentCensusBlockGroup			PS,PF	12	String		E1648
BeginDate			PS,PE,PF	10	Date		E3010
EndDate			PS,PE,PF	10	Date		E3020
CrisisEventSet (may have multiple instances)							
CrisisEvent			PS,PE,PF		Descriptor	C178	E1054
BeginDate			PS,PE,PF	10	Date		E3010
EndDate			PS,PE,PF	10	Date		E3020
Name							
FirstName		✓	PS,PE,PF	75	String		E0703
MiddleName		✓	PS,PE,PF	75	String		E0704
LastSurname		✓	PS,PE,PF	75	String		E0705

Collected in Core Submissions:
 SPPI-14 - SPPI-14
 RFT - RFT
 CSW - Charter School Waitlist
 ECDS - ECDS-KG
 ECDS - ECDS-PK
 CF - Child Find
 CR - CRW (ances)

- Within each Entity, every data element will display to which Collection/Submission the data element will be reported for TSDS state reporting.
- No longer need to use filters to determine which data elements apply to the collection.

TWEDS – DATA COMPONENTS (CONT.)

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: Data Elements Search

Year: 2022-23
 Collection: ALL
 Submission: ALL
 Submission Instance: ALL
 Published Version: 2023.1.1

Open

TWEDS XML
2015-2024

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2022-2023 TEDS

- ▶ Domains
- ▶ Categories
- ▶ Entities
- ▶ Data Elements

Student Identification and Demographics Domain

StudentEducationOrganizationAssociation Entity

Data Element	NP*	Core	PEIMS	Length	Data Type	Descriptor Table	Element ID
Student	-	-	-	-	-	-	-
Sex			PS		Descriptor	C013	E0004
Race			PS		Descriptor	C304	E3050
HispanicLatinoEthnicity			PS		Boolean		E1064
StudentAcceleratedEducationPlan			PS		Boolean		E3083
AcceleratedInstructionSet (<i>may have multiple instances</i>)							
AcceleratedInstructionSubject			PS		Descriptor	C352	E3084
StudentAcceleratedInstructionParticipation			PS		Descriptor	C353	E3085
AssignedHoursAcceleratedInstruction			PS	4	Decimal		E3086
CompletedHoursAcceleratedInstruction			PS	4	Decimal		E3087

- The **Reference** icon means that the information for a data element will come from a previously published data element.

- For example, the **StudentEducationOrganizationAssociation** entity will reference the Student Entity, which was previously published to the IODS, to capture basic information about a student. (Also referred to as Referential Integrity.)

TWEDS – DATA COMPONENTS (CONT.)

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: Data Elements Search

Year: 2022-23

Collection: ALL

Submission: ALL

Submission Instance: ALL

Published Version: 2023.1.1

Open

TWEDS XML
2015-2024

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Data Components

2022-2023 TEDS

- Domains
- Categories
- Entities
- Data Elements

Student Identification and Demographics Domain

StudentEducationOrganizationAssociation Entity

Data Element	NP*	Core	PEIMS	Length	Data Type	Descriptor Table	Element ID
Student	-	-	-	-	-	-	-
Sex			PS		Descriptor	C013	E0004
Race			PS		Descriptor	C304	E3050
HispanicLatinoEthnicity			PS		Boolean		E1064
StudentAcceleratedEducationPlan			PS		Boolean		E3083
AcceleratedInstructionSet <i>(may have multiple instances)</i>							
AcceleratedInstructionSubject			PS		Descriptor	C352	E3084
StudentAcceleratedInstructionParticipation			PS		Descriptor	C353	E3085
AssignedHoursAcceleratedInstruction			PS	4	Decimal		E3086
CompletedHoursAcceleratedInstruction			PS	4	Decimal		E3087

- **May Have Multiple Instances:**
 This means more than one set of this data may be reported in a single instance of this entity.

- For instance, in this example, you can have multiple **AcceleratedInstructionSet** depending on the number of subjects in which the student is eligible to receive accelerated instruction.

TWEDS – DATA COMPONENTS (CONT.)

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Year: 2022-23
 Collection: ALL
 Submission: ALL
 Submission Instance: ALL
 Published Version: 2023.1.1

Open

Search For: Search By: Data Elements Search

TWEDS XML 2015-2024

Overview **Data Components** Descriptor Table References Rules Change Logs Early Notice Timelines

Data Components
 2022-2023 TEDS

- Domains
- Categories
- Entities**
- Data Elements

Education Organization Domain

EducationServiceCenter Entity

Data Element	NP*	Core	PEIMS	Length	Data Type	Descriptor Table	Element ID
EducationOrganizationCategory <i>(may have multiple instances)</i>	✓				Descriptor	C331	E3019
NameOfInstitution			PF,PM	75	String		E3037
EducationServiceCenter			PF,PM	6	Number		E1091

■ **NP* (Landing Zone/Not Promoted Data Elements) (Cont.)**

- Data elements that are part of the key or mandatory for Ed-Fi but not used by TEA. These data elements will be loaded into the Landing Zone but will not be promoted to the Core Collection or PEIMS Data Marts.
- In this example, within the **EducationServiceCenter** Entity the **EducationOrganizationCategory** data element will **not be promoted to TSDS** since it has a check mark under the NP* column.

TWEDS – DATA COMPONENTS (CONT.)

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: [Data Elements](#)

Year: 2022-23
 Collection: ALL
 Submission: ALL
 Submission Instance: ALL
 Published Version: 2023.1.1

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Data Components
2022-2023 TEDS

- ▶ Domains
- ▶ Categories
- ▶ **Entities**
- ▶ Data Elements

- The **Data Submission Requirements** information is included at the bottom of each entity.

Legend

PEIMS:
 PF-Fall Submission
 PM-Mid-Year Submission
 PS-Summer Submission
 PE-Extended Submission

* NP = "Not Promoted"

🔗 link icon hyperlinks to the entity for a cross-referenced item

NOTE: For specifics on which Core collections a data is used in, click the hyperlinked data element name or hover over the checkmark icon

Entity Description
Student Education Organization Association
General Reporting Requirements
Special Reporting Requirements
Data Element Reporting Requirements
Examples

TWEDS – DATA COMPONENTS (CONT.)

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: Data Elements

Year: 2022-23
 Collection: ALL
 Submission: ALL
 Submission Instance: ALL
 Published Version: 2023.1.1

[Overview](#) **[Data Components](#)** [Descriptor Table](#) [References](#) [Rules](#) [Change Logs](#) [Early Notice](#)

Data Components
2022-2023 TEDS

- ▶ Domains
- ▶ Categories
- ▶ Entities
- ▶ **Data Elements**



- Within each data element, you can see to which Collection/Submission the data element will be reported for TSDS state reporting.
- No longer need to use filters to determine which data elements apply to the collection.

Data Element ID	Data Element Name	Date Issued	Date Updated
E0706	GenerationCode	12/01/2021	
Definition			
GenerationCode identifies the generation suffix, if any, which the person attaches to his name (e.g., Jr., Sr., III).			
Special Instructions			
Table Identification		Length	Data Type
GenerationCode(C012)			Descriptor
Used in Entities			
Student			
Used in Domain			
Former Data Element Name			
Used in Data Collections/Submissions			
<input checked="" type="checkbox"/> PEIMS EXYR	<input type="checkbox"/> CR CRF		
<input checked="" type="checkbox"/> PEIMS FALL	<input checked="" type="checkbox"/> CR CRW		
<input type="checkbox"/> PEIMS MDYR	<input checked="" type="checkbox"/> CSW Charter School		
<input checked="" type="checkbox"/> PEIMS SUMR	Waitlist		
<input checked="" type="checkbox"/> CF Child Find	<input checked="" type="checkbox"/> ECDS ECDS-KG		
	<input checked="" type="checkbox"/> ECDS ECDS-PK		

TWEDS – DESCRIPTOR TABLE

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: **Data Elements**

Year: 2022-23
 Collection: ALL
 Submission: ALL
 Submission Instance: ALL
 Published Version: 2023.1.1

[Overview](#) [Data Components](#) **[Descriptor Table](#)** [References](#) [Rules](#) [Change Logs](#) [Early Notice](#)

Descriptor Table
2022-2023 TEDS

Description of Descriptor Tables

List of Descriptors

Table Identification	Name		Date Issued	Date Updated
C012	GenerationCode		03/01/2013	01/12/2023
Descriptor	Short Description	Long Description		
1	Jr	Jr		
2	Sr	Sr		
3	II	II		
4	III	III		
5	IV	IV		
6	V	V		
7	VI	VI		
8	VII	VII		
9	VIII	VIII		
A	I	I		
B	IX	IX		
C	X	X		

- Within each descriptor table, you can find the Descriptor, Short Description and Long Description.
- In the TSDS Upgrade Project, only the descriptor value(s) are reported, not the short description or long description.

- For example, for data element GenerationCode, the LEA’s vendor(s) should publish the descriptor value “1” to the LEA’s IODS, not “Jr”. If the vendor publishes "Jr" or any other local value that means "Jr" to the LEA's IODS, mapping will be required to promote the appropriate state descriptor value to TSDS.

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: Data Elements

Year: 2022-23
Collection: ALL
Submission: ALL
Submission Instance: ALL
Published Version: 2023.1.1

Overview Data Components Descriptor Table **References** Rules Change Logs Early Notice

■ **Technical Documentation for references:**

- Course Codes
- PEIMS Leaver Data
- PEIMS Discipline Data
- PEIMS Organization Code Reporting Guidelines
- PEIMS Career and Technical Education (CTE) Indicator Code Calculation
- CTE Programs of Study
- Industry-Based Certification (IBC) Approved Vendor Crosswalk
- TSDS Unique ID Specifications
- Much more



TWEDS – RULES

- In each rule, a check mark in the Core column will show the Core collections to which the rule applies.
- The PEIMS column will indicate PF = PEIMS Fall, PS = PEIMS Summer, etc.

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For:

Search By:

Data Elements

Search

Year: 2022-23
Collection: ALL
Submission: ALL
Submission Instance: ALL
Published Version: 2023.1.1

Open

TWEDS XML
2015-2024

Overview
Data Components
Descriptor Table
References

Rules

Change Logs
Early Notice

Timelines

Rules
2022-2023 TEDS

Business Context Rules

Level 1.5 Rules

▼ **Level 2 Rules**

- ▶ Level 2 Rules by Severity
- ▶ Level 2 Rules by Category/Subcategory

▼ **Level 3 Rules**

- ▶ Level 3 Rules by Severity
- ▶ Level 3 Rules by Category/Subcategory

Rule #	Rule Text / Business Meaning	Sev/Level	Core	PEIMS	Applies To
10020-000F	For a Campus/School being reported for PEIMS Submission 4 (Extended Year) the following must be provided: LocalEducationAgency (LocalEducationAgencyId, LocalEducationAgencyCategory), and ExpandedLearningOpportunity. For a Campus/School being reported for PEIMS Submission 4 (Extended Year) the following must be provided: LocalEducationAgency (LocalEducationAgencyId, LocalEducationAgencyCategory), and ExpandedLearningOpportunity.	F L2, L3		PE	Campus, Charter, LEA
10020-0010	SchoolId must match an entry registered with TEA as an active instructional or under construction campus. For a Campus, the SchoolId must be a valid campus registered with the TEA as an active instructional or under construction campus.	F L2, L3		PF	Campus, Charter, LEA
10020-0011	SchoolId must match an entry registered with TEA as active instructional or under construction in the prior school year. For a Campus, the SchoolId must be a valid campus registered with the TEA as active instructional or under construction in the prior school year.	F L2, L3		PM	Campus, Charter, LEA
10020-0012	SchoolId must match an entry registered with TEA as an active instructional campus. For a Campus, the SchoolId must be a valid campus registered with the TEA as an active instructional campus.	F	✓	PS, PE	Campus, Charter, LEA
10020-0013	For each campus registered with TEA as an active instructional campus, except JJAEPs, there should be StaffEducationOrganizationAssignmentAssociation or StaffSectionAssociation data for each staff assignment. Staff assignment data should be reported for each professional and paraprofessional staff person for each active instructional campus (except JJAEPs).			PS	Charter, LEA
10020-0014	For each campus registered with TEA as an active instructional campus, there should be student data for each student served by the Local Education Agency. Student data should be reported for each student for each active instructional campus.	S L2, L3	✓	PF, PS	Charter, LEA

TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: Data Elements

Year: 2022-23
Collection: ALL
Submission: ALL
Submission Instance: ALL
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TWEDS XML
2015-2024

Overview Data Components Descriptor Table References Rules **Change Logs** Early Notice

- **Cumulative Change Logs (3):**
 - Same information with some new terminology.
 - 1. Domain, Entities and Data Element changes
 - 2. Descriptor Table changes
 - 3. Data Validation (rules) changes



TSDS Web-Enabled Data Standards

Search. Drill. Find.

Search For: Search By: Data Elements

Year: 2022-23
Collection: ALL
Submission: ALL
Submission Instance: ALL
Published Version: 2023.1.1

TWEDS XML
2015-2024

[Overview](#) [Data Components](#) [Descriptor Table](#) [References](#) [Rules](#) [Change Logs](#) **Early Notice** [Timelines](#)

- **Early Notice:**
 - When TEA has a notice to provide to LEAs for future data collections.





TRAINING ACTIVITIES

Demo, Troubleshooting, Knowledge Checks

Scenario 1: How do I search for the data element Behavior (E1006), formerly known as DISCIPLINARY-ACTION-REASON-CODE (E1006), in Ed-Fi 1.x?

The data element name, **DISCIPLINARY-ACTION-REASON-CODE (E1006)**, has been changed to **Behavior (E1006)** in the Ed-Fi 4.x standard. The definition remains the same and the descriptor table name is changed to **Behavior (C165)** also.

Resolution Steps:

- Navigate to the new **TWEDS** [\(add hyperlink\)](#)
- In TWEDS, search for the new Ed-Fi 4.x data element **Behavior (E1006)**.
- From the search results, click on the data element **Behavior (E1006)** to see the details.
- In the data element details, you will find the former data element **DISCIPLINARY-ACTION-REASON-CODE (E1006)** referenced in the **Former Data Element** field.

Scenario 2: Why can't I find the data element AT-RISK-INDICATOR-CODE (E0919)?

To align with the Ed-Fi 4.x data standards, TEA combined over 20 data elements that used the **PARTICIPATION-INDICATOR-CODE (C088)** into a single data element, **StudentCharacteristic (E3063)**. This new data element will use the **StudentCharacteristic (C344)** table to capture important characteristics of the student's characteristics or program participation.

Resolution Steps:

- Navigate to the new TWEDS [\(add hyperlink\)](#)
- Search for the data element **StudentCharacteristic (E3063)** in TWEDS.
- Within the **StudentCharacteristic (E3063)** data element, click on the link to the **StudentCharacteristic (C344)** descriptor table to see all the descriptor values for the different programs and services used to report information about a student.
- To report a student as 'At-Risk', the LEA will need to:
 - Use the **StudentCharacteristic (E3063)** data element
 - Use the '01' descriptor value from the **StudentCharacteristic (C344) descriptor table** to indicate a student identified as **At-Risk**.
 - Report the **BeginDate** when the student first became At-Risk. Report the **EndDate** when the student is no longer classified as At-Risk.

DEMONSTRATION

1. Navigate to the new TSDS Web-Enabled Data Standards (TWEDS).
2. TWEDS Tabs
 - Overview
 - Data Components
 - Descriptor Tables
 - References
 - Rules
 - Change Logs
 - Early Notice
3. Search Features

KNOWLEDGE CHECK

1. What Ed-Fi Data Standard are the Texas Education Data Standards (TEDS) being built upon for the TSDS Upgrade Project?
 - A. Ed-Fi Data Standard version 2
 - B. Ed-Fi Data Standard version 3
 - C. Ed-Fi Data Standard version 4
 - D. None of the above

KNOWLEDGE CHECK

- 2. During the 2024-2025 school year all LEAs will use the TEDS version 4.x in TWEDS to complete their TSDS submissions.**
 - A. True
 - B. False

KNOWLEDGE CHECK

3. The StudentCharacteristic (C344) descriptor table should be used in TEDS version 4.x to provide information on programs and/or services in which a student is participating in.
- A. True
 - B. False

Note: StudentCharacteristic (C344) descriptor table contains data elements that were previously reported using the C088 code table. However, it is important to note that while the **StudentCharacteristic (C344)** is one way to report such information, there are other data elements/descriptor tables like HomelessStatus (C189), FosterCareType (C196), etc., which will be used to report other student characteristics.

4. The BeginDate (E3010) will be required to be reported for each student characteristic.
- A. True
 - B. False

Note: BeginDate (E3010) is always required for each student characteristic. It is the first instructional day a student is assigned to the StudentCharacteristic descriptor.

KNOWLEDGE CHECK

5. The EndDate (E3020) will only be reported for every student characteristic when the student no longer has the characteristic or no longer participates in the program.

- A. True
- B. False

Note: EndDate (E3020) should also be reported when the student no longer has the characteristic or no longer participates in the program.



WRAP UP

Key Takeaways, Resources, and Next Steps

KEY TAKEAWAYS



The Texas Education Data Standards are being **updated to Ed-Fi version 4.x** for the TSDS Upgrade Project.



In Ed-Fi 4.x, Student Characteristics will generally be reported at the descriptor level using the **StudentCharacteristic (C344)** descriptor table, but certain student characteristics will be reported outside this descriptor table.



LEAs will utilize **TEDS documentation** provided in **TWEDS** for the **Go Live year**.

TRAINING RESOURCES



- [Key Terms and Definitions](#)



- Reference Guide on how to navigate in TWEDS – Coming Soon!

NEXT STEPS



Starting July 1st, begin to utilize the new TWEDS to learn more about TEDS 4.x to understand and teach these key changes and effectively support LEAs when we Go-Live.



Plan to take additional training on:

- DMC
 - TEAL Roles (LEA & ESC)
 - Security and Administrative Features
 - Level 1.5 Filters
 - Descriptor Mapping
 - Level 2 Validations

REMEMBER: THIS PROJECT IS A TSDS **UPGRADE!**

Much of what you know will stay the same with some upgrades to make TSDS even better.

In this training we talked about:

- Why TEA is updating TEDS for the TSDS Upgrade Project.
- The key changes for TEDS and how some student characteristics will be reported differently.
- How to navigate through TWEDS documentation to effectively support LEAs when we go live.

QUESTIONS

