



TSDS ODS 3.x PROJECT UPDATES

FOR VENDORS August 4, 2022

SESSION AGENDA

PROJECT UPDATE

Purpose & Project Extension

PROJECT TIMELINE

- Pilot Program & Milestones
- Parallel Submission & Go-Live

PROJECT ARCHITECTURE

- Diagram & Components
- ODS & Key Changes

UPCOMING EVENTS

- Software Development Kit (SDK)
- Vendor Communications & Support
- CLOSEOUT
 - Key Takeaways & FAQs









OFFICE OF INFORMATION TECHNOLOGY

Customer Relationship Management & Data Standards Department Information Technology



A multi-year initiative to upgrade the Operational Data Store (ODS) and Texas Education Data Standards (TEDS) to a current version of Ed-FI.



Announced on May 18, 2022

RATIONAL & REASONING

PROJECT TIMELINE EXTENSION



PILOT PROGRAM

Extending provides a more extensive End-to-End testing period for LEAs to validate their vendor product solutions.

TECHNOLOGY & ARCHITECTURE

Extending allows TEA to have ownership of the architecture and control in developing application(s) to meet LEA needs.

VENDOR READINESS

Extending grants vendors more time to develop their solution(s) in ensuring readiness for parallel submission.



LEA COMMUNICATIONS

Published <u>To the Administrator Addressed (TAA)</u> on **September 30, 2021** Published <u>To the Administrator Addressed (TAA)</u> on **May 19, 2022**





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 year.

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.





2021-2023: PILOT PROGRAM

- 2021-2022: Cohort of six (6) vendors conducted initial vetting of the integration and data out phases.
 - Software Development Kit (SDK) was provided to all vendors.
- 2022-2023: Pilot program will continue for any interested vendor.
 - LEAs and ESCs will begin End-to-End testing starting in January 2023.





TEM

September 2022: Online form available for LEAs to submit their interest in the pilot program.

PILOT PROGRAM: KEY MILESTONES







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 data will be used official TSDS reporting.





TEM

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

2024-2025: GO-LIVE

REQUIRED For All Vendors REQUIRED For All LEAs & ESCs

- Only API transactions will be accepted for TSDS
- XML data loads will <u>not</u> be available or permitted

Ĵ LIVE

 Training & support based upon API transactions





8/1/2022

UPDATED ARCHITECTURE

tsds



UPDATED ARCHITECTURE

tede



tsds

UPDATED ARCHITECTURE



UPDATED ARCHITECTURE



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OPERATIONAL DATA STORE (ODS)

Each LEA will be provided an Ed-Fi Operational Data Store (ODS) to utilize for **state reporting and local use**. LEAs will need to provide security credentials to vendors through the Data Management Center for API transactions.

Source system vendors will publish **transactional data** to an LEA's Ed-Fi ODS irrespective of specific TSDS data submissions along with appropriate effective dating.

Additional data can be published beyond the reporting requirements of TSDS for an LEA's local use.

LEAs will be able to verify and validate API transactional data in the Data Management Center.

Logic will be implemented in the LEA's Landing Zone to ensure only the TSDS state mandated data is reported to TEA's Transition Zone (ODS) and utilized for TSDS data submissions.







TEA

KEY CHANGES TO DATA COLLECTION

2024-2025 (Go-Live) school year:

 Attendance
 1. Granular negative attendance by student which will eliminate the requirement for SIS vendors to calculate attendance by six-weeks.

 2. Cumulative attendance by six-weeks by student (no change from the way attendance is currently collected).

 Note: TEA will discontinue collecting cumulative attendance after confirming attendance calculations in future year(s) beyond 2024-2025.

 Enrollment and withdrawal data will be collected at the student lawa

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Enrollment

Enrollment and **withdrawal** data will be collected at the **student level** through source system vendor API transactions to the LEA's ODS.

TEA plans to collect attendance data two ways in the

This data will be automatically loaded to the Unique ID Enrollment Tracking application. LEAs will **no longer need to load this data in the Unique ID system directly.**

WHAT IS REMAINING THE SAME?

- All processes that occur from the Transition Zone (ODS) to the data mart will remain as-is.
- Reports and business rule validations will remain in downstream TSDS applications.
- **TEAL** will continue to be utilized for authentication.
- Unique ID application will continue to be utilized for assignment for staff and students.
- TSDS Web-Enabled Data Standards (TWEDS) will continue to be utilized to provide specifications and guidance.



SOFTWARE DEVELOPMENT KIT (SDK)



PURPOSE

The SDK will provide vendors with a fully functional set of EdFi ODS, WebApi, Swagger, and Admin App that can be easily installed in their local systems for development purposes.

The ODS and WebApi will contain all the TEA defined extensions, as well as will come with pre-populated TEA Descriptors, Education Organizations (ESCs, LEAs, and Campuses), and Courses.

TECHNICAL APPROACH

TEA will create a "Docker Compose File" that will create all the required containers for all the components in a local system running a Docker engine. All container images referenced in the Docker Compose File will be owned and managed by TEA.



SDK: KEY CHANGES & DIFFERENCES



What will be different?

- MS SQL Server Express instead of PostgreSQL
- API mode is "DistrictSpecific" instead of ShareInstance
- Admin App will be included
 - Create more ODSs for different districts
 - Configure claim-sets

What remains the same?

- Dependency on Docker
- Texas extensions and pre-populated data
- ODS and API versions



SDK: DEMONSTRATION



Software Development Kit

Run Docker Compose File Show containers in Docker Desktop

Open API and Swagger in the browser

Login to Swagger

Query Pre-loaded data

DEMO







Ed-Fi Admin App

Create ODS Instances Manage Claim Sets Create Key/Secrets List Descriptors District user



8/1/2022

TEA

VENDOR COMMUNICATIONS & SUPPORT

Statewide Vendor Webinars

- TEA will resume the statewide webinars for all vendors starting in September 2022.
- Meeting invitations for our next webinar will be sent to our vendor distribution list in August 2022.
- Please contact the following mailbox to be added to the distribution list:

TSDSDeployment@tea.Texas.gov

Vendor Coordination

- TEA is still in the process of hiring a dedicated TSDS ODS 3.x vendor coordinator.
- Support guidance and process will be provided during the statewide vendor webinar in September 2022.
- Pilot vendors can continue to utilize the Microsoft TEAMS channels previously established.



TEA

KEY TAKEAWAYS

2021-2023 Pilot Program (extended)

2023-2024 Parallel Year

2024-2025 Go-Live



Any interested vendor can join the optional pilot program being extended into the 2022-2023 school year.



The Software Development Kit (SDK) for 2022-2023 will be provided in **September 2022.**

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Partner LEAs will be able to test in TEA's parallel environment in starting in January 2023.

PILOT END-TO-END TESTING

- Vendors will need to partner with LEAs to complete end-toend testing.
- TEA will coordinate with vendors to ensure product readiness and support capacity.
- Vendors will need to provide any necessary training on their product solutions.
- TEA will provide training and support to LEAs and ESCs on the TEA environments and applications.

FREQUENTLY ASKED QUESTIONS

Can vendors join pilot program in 2022-2023 if they were not a pilot vendor in 2021-2022?

Yes. The pilot program is open to any interested vendor, regardless if they were a pilot vendor last year. TEA strongly encourages vendors to participate in this optional opportunity.

Vendors do not need to meet any criteria requirements to be accepted. Please contact <u>TSDSDeployment@tea.texas.gov</u> for any questions or to be added to the pilot program for 2022-2023.



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FREQUENTLY ASKED QUESTIONS

What TEDS publication will the upcoming SDK be built upon?

The Software Development Kit (SDK) scheduled to be released in September 2022 will be built upon the ODS 3.x TEDS post addendum published on August 1, 2022.

TEA will continue to release additional SDK updates, as necessary, based upon any TEDS changes or vendor feedback.



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FREQUENTLY ASKED QUESTIONS

What support and assistance is available to vendors now?

While TEA is still in the process of hiring a dedicated TSDS ODS 3.x Vendor Coordinator, vendors can still reach out to <u>TSDSDeployment@tea.texas.gov</u> for assistance.

Pilot vendors with previously established Microsoft TEAMS channels can also utilize that platform to reach out with any questions.

TEA will be establishing a new support process for all vendors in the coming months. Information and guidance will be shared during the upcoming vendor webinar expected in September 2022.



FREQUENTLY ASKED QUESTIONS

How do pilot vendors prepare for End-to-End testing by LEAs?

TEA will be providing additional guidance and support regarding Endto-End testing in the coming months through the scheduled statewide vendor webinars.

Pilot vendors will need to plan for any necessary documentation and/or training that an LEA partner will need in order to integrate and utilize their product solution(s).

TEA will assist pilot vendors and partner LEAs with the applicable security credentials needed to publish data needed for End-to-End testing.





QUESTIONS