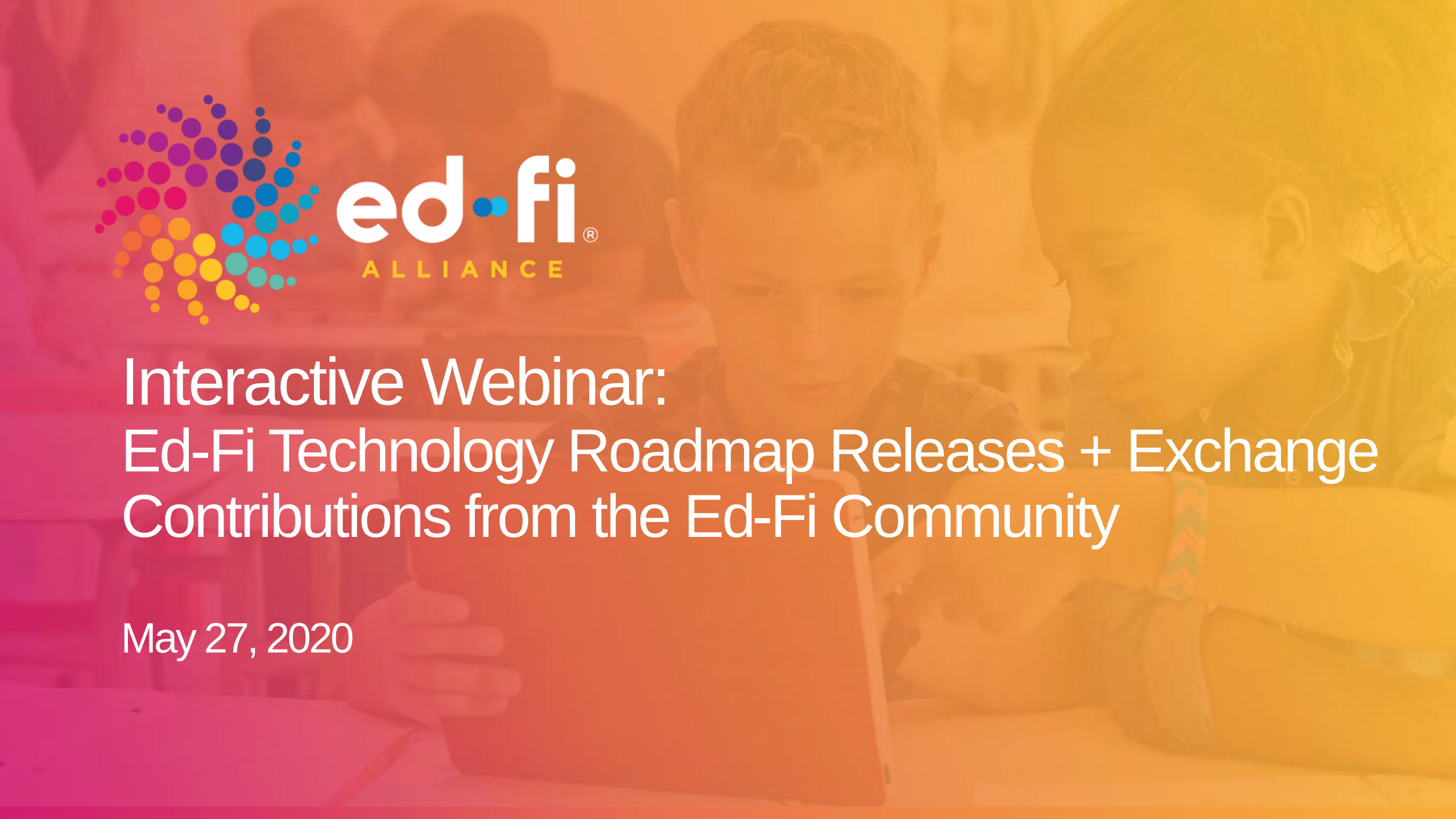


Interactive Webinar:
Ed-Fi Technology Roadmap Releases + Exchange Contributions from the Ed-Fi Community

May 27, 2020

Welcome!

- 30 minute presentation, 10 minutes of Q&A
- Use the Webex Q&A feature to submit a question at anytime

What We'll Cover

- Recent roadmap releases
- Community contributions to the Ed-Fi Exchange
- Coming up on the roadmap

Hello!

Caroline Kazmierski
Director of Communications & Mktg
- Four years @ Ed-Fi
- Tech PR expert
- Dogs or cats?
- Contact: Caroline.Kazmierski@ed-fi.org
- Twitter: @edfialliance

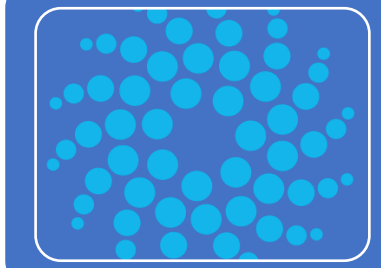
Chris Moffatt
VP of Technology
- Seven years @ Ed-Fi
- Formerly spent 20 years at Microsoft
- Dog or cats?
- Contact: Chris.Moffatt@ed-fi.org

Virgil Hretcanu
Application Developer, EdNexus Oregon
- 2 years @ EdNexus
- Dog or cats?
- Contact: vhretcanu@nwresd.k12.or.us

Stephen Fuqua
Senior Software Architect
- Two years @ Ed-Fi
- Experience in multiple industries, with both on-premises and SaaS models
- ~~Dog or cats?~~ Birds
- Contact: Stephen.Fuqua@ed-fi.org

What We Will Cover Today

Recent roadmap releases



Community contributions to the Ed-Fi Exchange

Coming up on the roadmap

Recent roadmap releases

Latest Releases

On behalf of the Ed-Fi community, we are pleased to announce the following releases:

- May 2020:
  - Migration Utility 1.1.0
- April 2020:
  - Data Standard v3.2b, MetaEd v2.2
  - ODS / API v3.4, Admin App v1.8
  - Analytics Middle Tier v2.0.0
  - Tech Suite Installer Preview
  - Learning Standards Sync Utility v1.1
  - Ed-Fi Dashboards v3.0.1

[Blog post: Heads Down - Getting to Done]

Ed-Fi ODS / API v3.4

Support for PostgreSQL

- Project “Roadrunner” → Ed-Fi Core
- Targets LEA use cases (un-extended Ed-Fi Core)
- Support for PostgreSQL with related Ed-Fi tools is in progress

https://techdocs.ed-fi.org/display/ETKB/Ed-Fi+Technology+PostgreSQL+Support

Ed-Fi ODS / API v3.4

Support for PostgreSQL

Data Standard v3.2b

- Non-breaking enhancements to Core Student API (Ed-Fi RFC 24)

Major Changes – DS v3.2a&b

- Student Programs
- Discipline Domain
- Grade Point Average
- Student Attendance
- Student Enrollment Indicators
- Standards-Based Grading
- Bell Schedules and Instructional Time Capturing Concept of Residency
- Course Transcript Domain Expansion

ED-FI RFC 24 - CORE STUDENT API

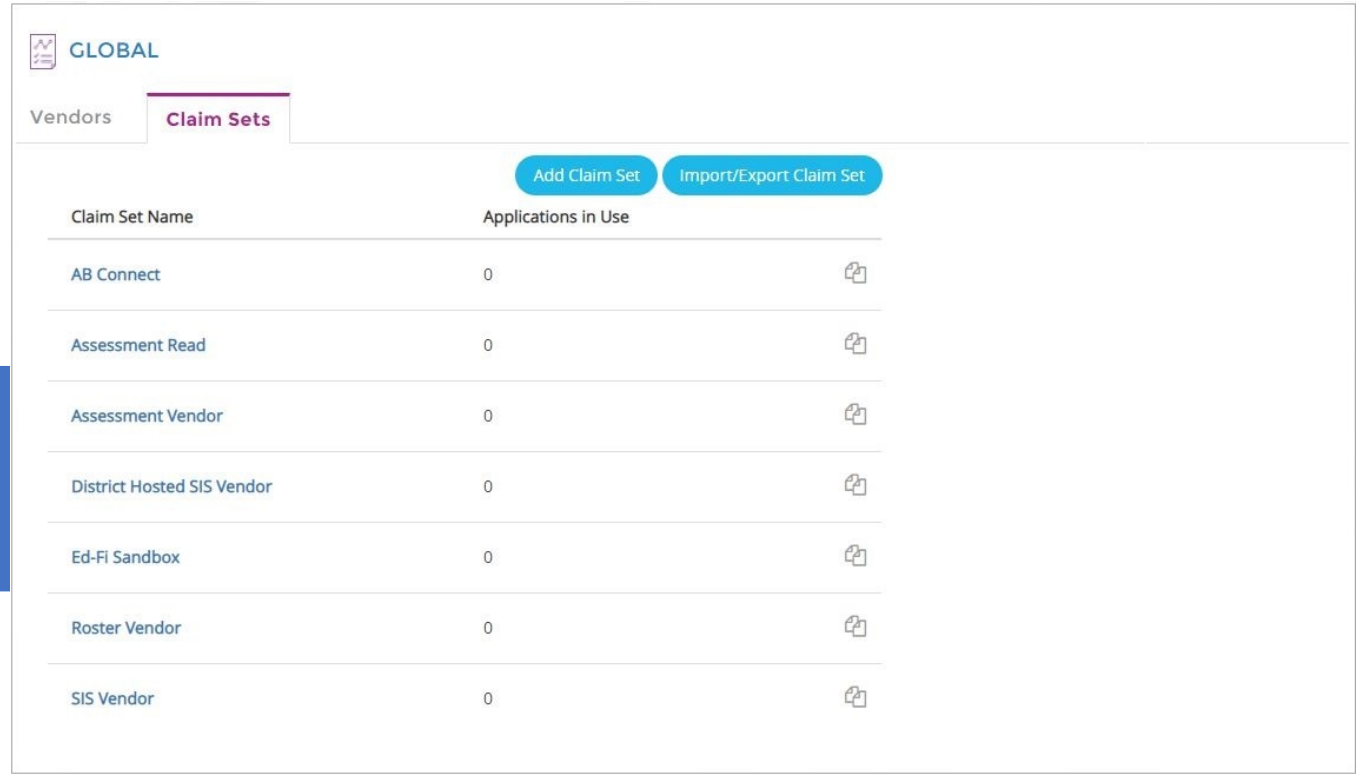
Ed-Fi ODS / API v3.4

Support for PostgreSQL

Data Standard v3.2b

Admin App v1.8

- Claim Set Editor
- ASP.Net Identity (Preview)
- Support for PostgreSQL



Ed-Fi ODS / API v3.4

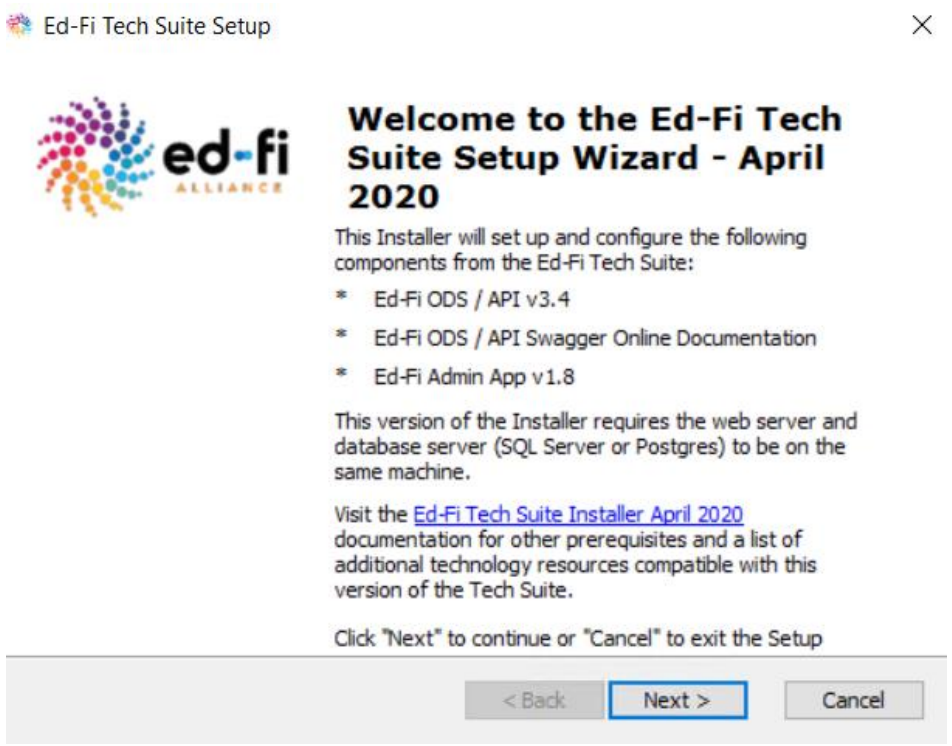
Support for PostgreSQL

Data Standard v3.2b

Admin App v1.8

Deployment support

- Tech Suite Installer (MSI & PowerShell)
- *Ed-Fi Exchange: Support for Cloud deployment on Azure and AWS (Beta) + additional PowerShell options*



Ed-Fi ODS / API v3.4

Support for PostgreSQL

- Project “Roadrunner” → Ed-Fi Core
- Targets LEA use cases (un-extended Ed-Fi Core)
- Support for PostgreSQL with related Ed-Fi tools is in progress

Data Standard v3.2b

- Non-breaking enhancements to Core Student API (Ed-Fi RFC 24)

Admin App v1.8

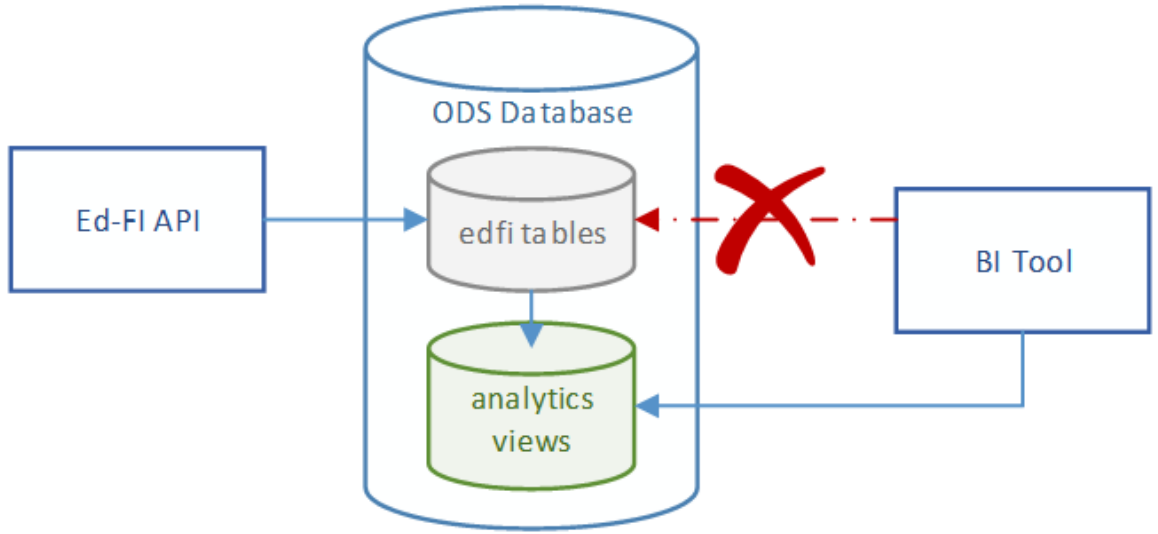
- Claim Set Editor
- ASP.Net Identity (Preview)
- Support for PostgreSQL

Deployment support

- Tech Suite Installer (MSI & PowerShell)
- *Ed-Fi Exchange: Support for Cloud deployment on Azure and AWS (Beta), + additional PowerShell options*

Analytics Middle Tier v2.0.0

The Analytics Middle Tier is a collection of SQL views that enable data analysts to better understand and access data in an Ed-Fi ODS / API while building reports and analytics



Analytics Middle Tier v2.0.0

Part of Ed-Fi core

- AMT is now a part of Ed-Fi core
- Supports Data Standard v2.2, v3.1, v3.2 → Ed-Fi ODS / API across Suite 2 and Suite 3
- Expanded documentation

Compatibility

The Analytics Middle Tier views support these Ed-Fi ODS database versions:

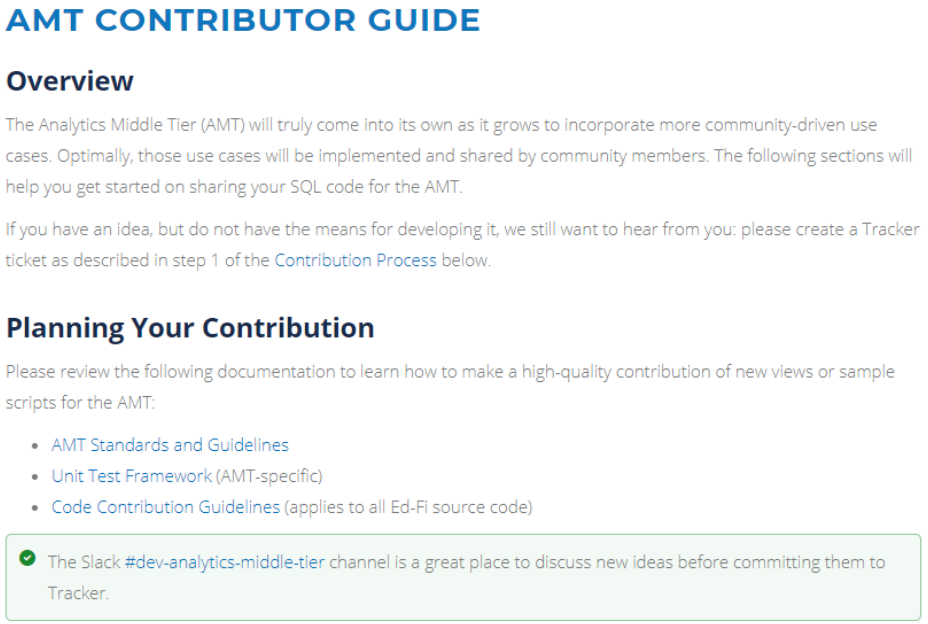
Ed-Fi ODS / API	Data Standard	Database Engine
2.5.1 2.6.0	2.2	SQL Server 2016 SQL Server 2017
3.1.1 3.2.0	3.1	SQL Server 2016 SQL Server 2017
3.3.0	3.2a	SQL Server 2016 SQL Server 2017
3.4.0	3.2b	SQL Server 2016 SQL Server 2017 PostgreSQL 11 (⚠ experimental)

Analytics Middle Tier v2.0.0

Part of Ed-Fi core

Core & use-case specific views

- A clearly defined set of core views that are always installed
- Optional install of use-case specific views, with documentation for how the Ed-Fi community can contribute use cases



AMT CONTRIBUTOR GUIDE

Overview

The Analytics Middle Tier (AMT) will truly come into its own as it grows to incorporate more community-driven use cases. Optimally, those use cases will be implemented and shared by community members. The following sections will help you get started on sharing your SQL code for the AMT.

If you have an idea, but do not have the means for developing it, we still want to hear from you: please create a Tracker ticket as described in step 1 of the Contribution Process below.

Planning Your Contribution

Please review the following documentation to learn how to make a high-quality contribution of new views or sample scripts for the AMT:

- AMT Standards and Guidelines
- Unit Test Framework (AMT-specific)
- Code Contribution Guidelines (applies to all Ed-Fi source code)

The Slack #dev-analytics-middle-tier channel is a great place to discuss new ideas before committing them to Tracker.

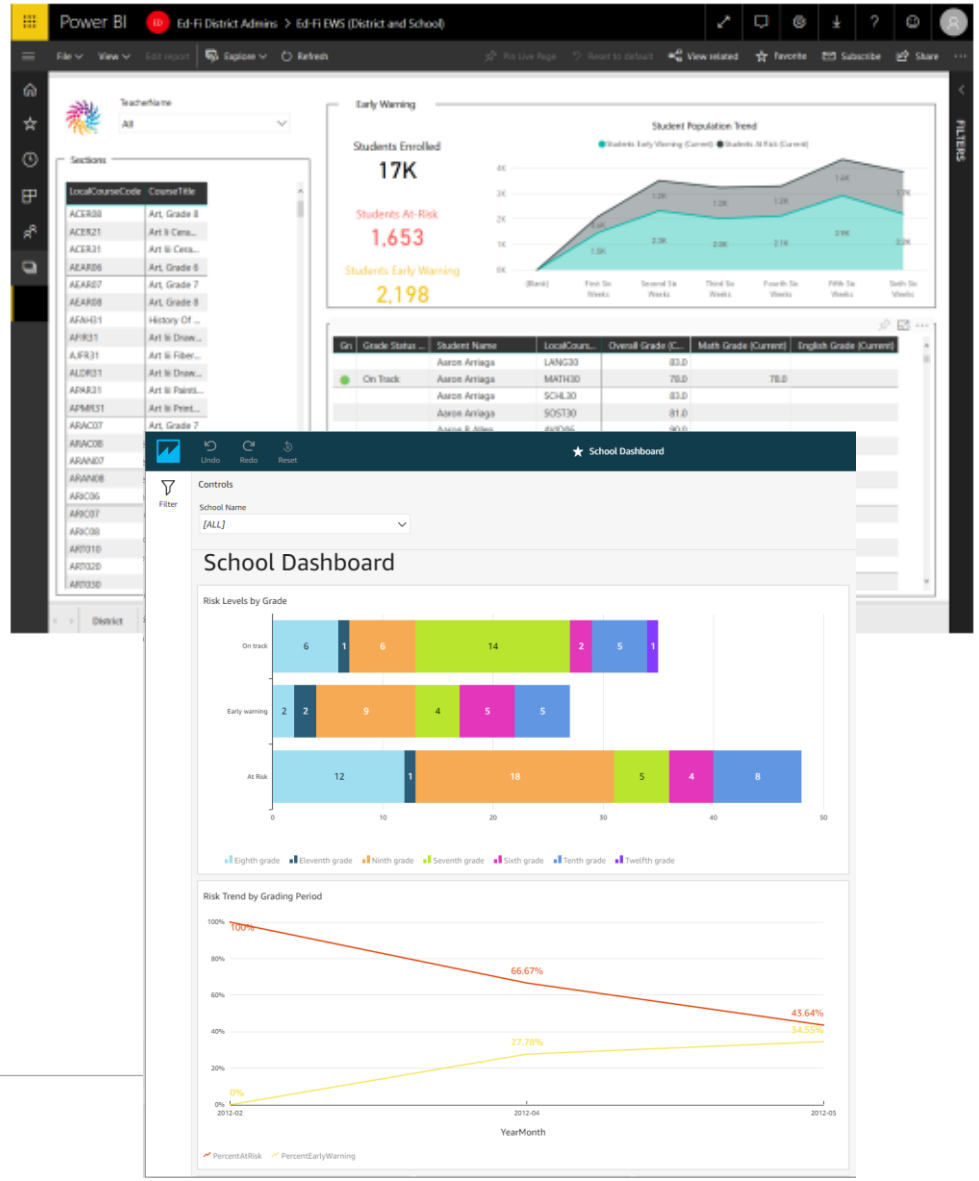
Analytics Middle Tier v2.0.0

Part of Ed-Fi core

Core & Use-case specific views

Analytics Starter Kits

- Starter kits in the Ed-Fi Exchange for Microsoft Power BI and AWS QuickSight – that consume AMT are on track for being updated during June



Analytics Middle Tier v2.0.0

Part of Ed-Fi core

- AMT is now a part of Ed-Fi core
- Supports Data Standard v2.2, v3.1, v3.2 → Ed-Fi ODS / API across Suite 2 and Suite 3
- Expanded documentation

Core & Use-case specific views

- A clearly defined set of core views that are always installed
- Optional install of use-case specific views, with documentation for how the Ed-Fi community can contribute use cases

Analytics Starter Kits

- Starter kits for PowerBI and AWS Quick Sight – that consume AMT are in track for being updated during June

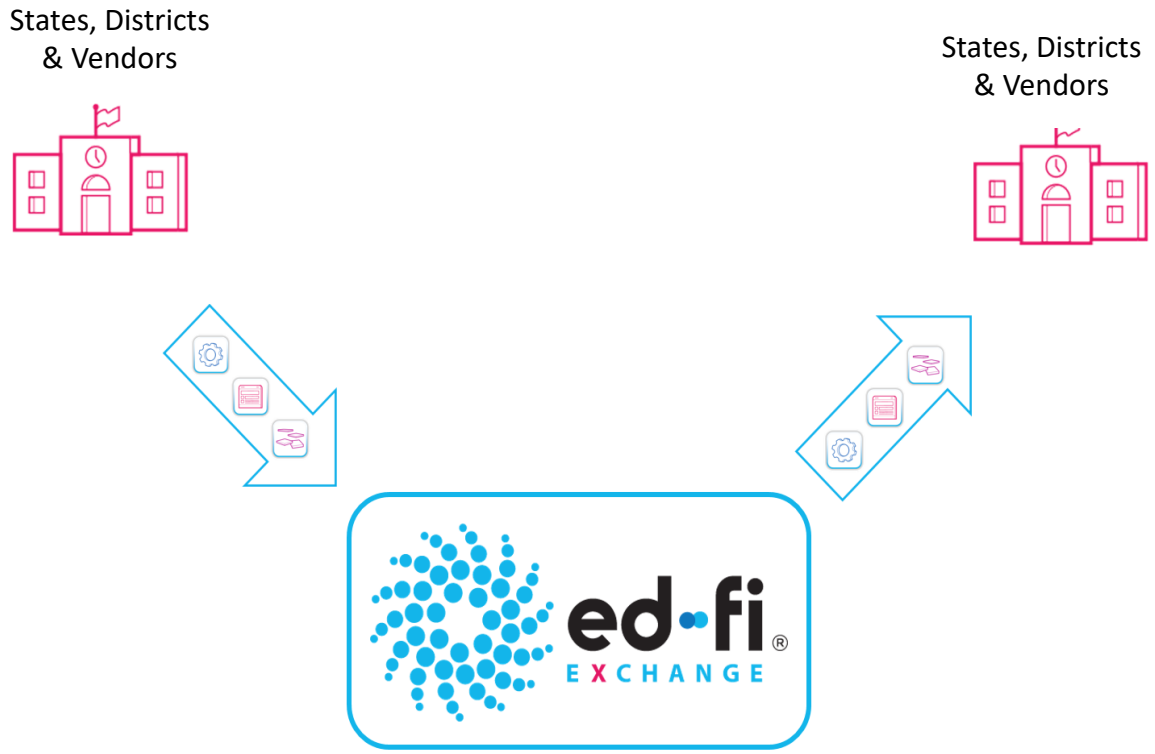
Community contributions to the Ed-Fi Exchange

What is the Ed-Fi Exchange?

A technology hub for community contributions aligned to the Ed-Fi Data Standard and Implementation Suite

Contributions can span from code, through to guides and documentation

Contributions start with creating a ticket in Ed-Fi Tracker



https://techdocs.ed-fi.org/display/EXCHANGE

Essential Questions – Effective Assessment Data Management Group (EADM)

The Effective Assessment Data Management (EADM) group has captured and refined a set of Essential Questions (EQ) which districts ask of their assessment outcomes data

FLORIDA CODE – Collaborative on Operational Data for Educators

[Essential Question 24 in the Middle Grades – Are My Students Improving in Math?]

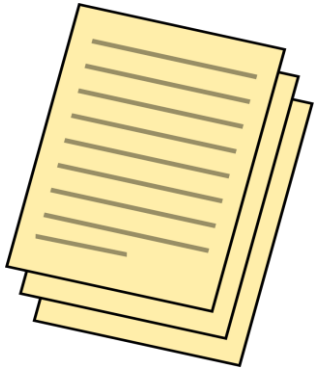
Power BI

METRO NASHVILLE PUBLIC SCHOOLS

[Essential Question 21: Are students on track to become college and career ready?]

Pittsburgh Public Schools – Expect great things.

[Documentation for Essential Questions of Assessment Outcomes - EQ 29]



CELT – Center for Educational Leadership and Technology

[Essential Question 58: Do teachers grades align to the various assessment results?]

LEA Analytics

Freshman On Track PowerBI Dashboard

Chico California Unified School District Tableau Reports

SEA & TPDM Contributions

Ed-Fi Credentials Starter

Ed-Fi Generate Plug-In (Suite 3)

Teacher Preparation Dashboard

Deployment Support

Ed-Fi ODS/API Cloud Deployment for AWS (Suite 3)

PowerShell script to install Ed-Fi binaries released on MyGet

How to set up TeamCity and Octopus Deploy for Ed-Fi ODS/API

Community Spotlight: Education Nexus Oregon

Freshman On Track

Education Nexus Oregon

Founded in 2016, Education Nexus Oregon (ENO) is a non-profit created through a collaborative effort of education technology leaders in the State of Oregon.

Membership in ENO includes the largest school districts and education service districts in Oregon, representing 65% of ADM.

ed-fi ALLIANCE

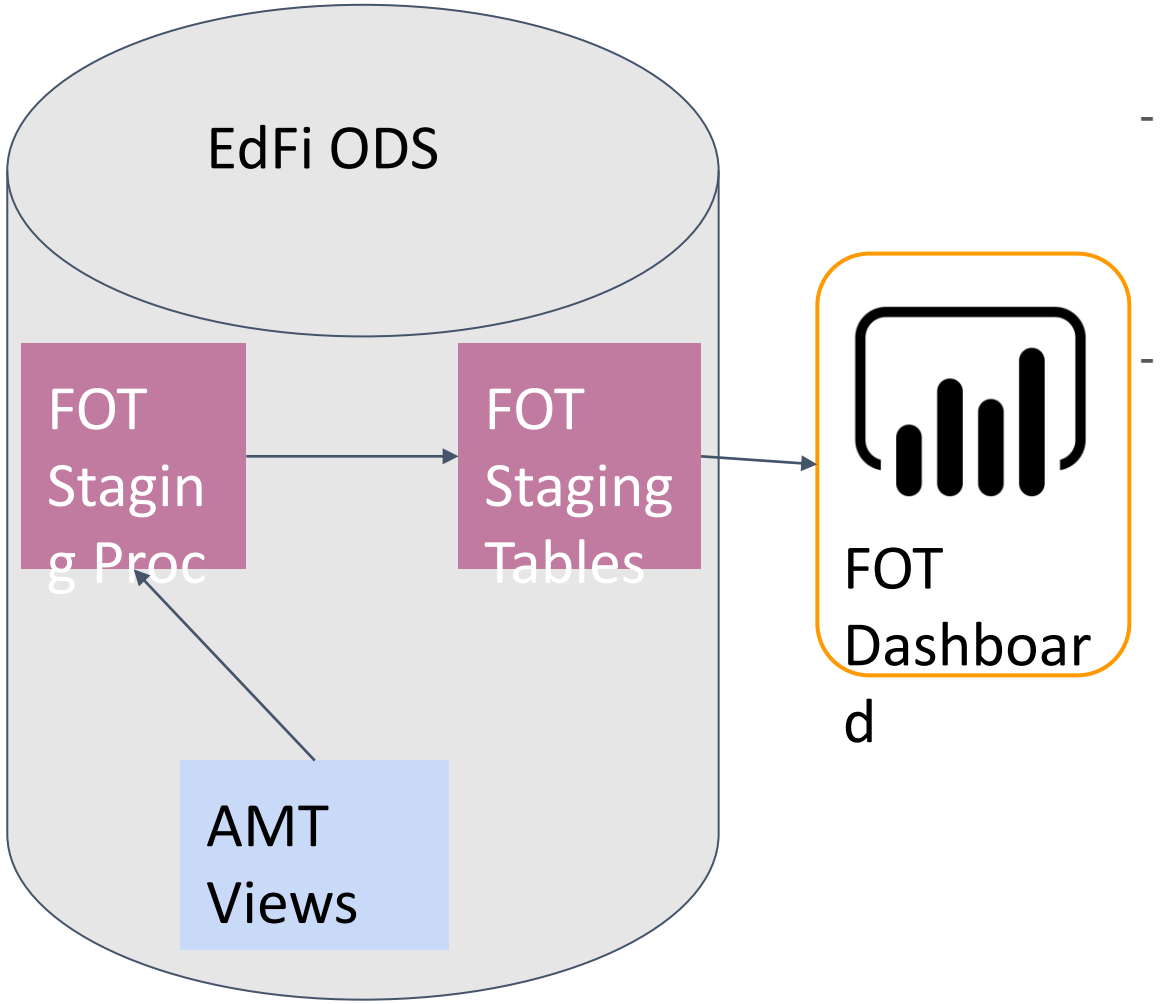
Education Nexus Oregon

Founded in 2016, Education Nexus Oregon (ENO) is a non-profit created through a collaborative effort of education technology leaders in the State of Oregon.

Membership in ENO includes the largest school districts and education service districts in Oregon, representing 65% of ADM.

ed-fi ALLIANCE

ENO EdFi Freshman On-Track Dashboard



- Uses Analytics Middle Tier (AMT) toolkit v2.0 to denormalize, aggregate and extract the data.
- For simplicity it uses the production ODS database to stage the reporting data. To limit the impact on the production database, the procedure can be scheduled to run nightly.

ENO EdFi Freshman On-Track Dashboard

What's next (technical standpoint)

- Identify the target audience and create the user feedback loop
- Minimize performance impact on the production ODS database by either replicating it or using the Microsoft SSAS services
- Develop new metrics and visualizations to assist teachers improve students academic performance and graduation rate

Resources

FOT Methodology https://ncs.uchicago.edu/freshman-on-track-toolkit
AMT https://techdocs.ed-fi.org/display/EDFITOOLS/Analytics+Middle+Tier

Coming up on the roadmap

[Open Source Announcement]

[Open Source FAQ]

Upcoming Releases (July & August)

- Data Model
  - Standard v3.2c: Survey API and Person entity (early access)
  - TPDM Extension v0.8
- ODS / API – Suite 3 v4.0.0*
  - Data Standard v3.2c, TPDM extension v.08
  - Released under open source
  - Server-side bulk load removed, client-side bulk load enhancements
- Admin App – v2.0.0
  - Multi-instance ODS support – for LEA collaboratives

*Blog: Open Source and New Versioning

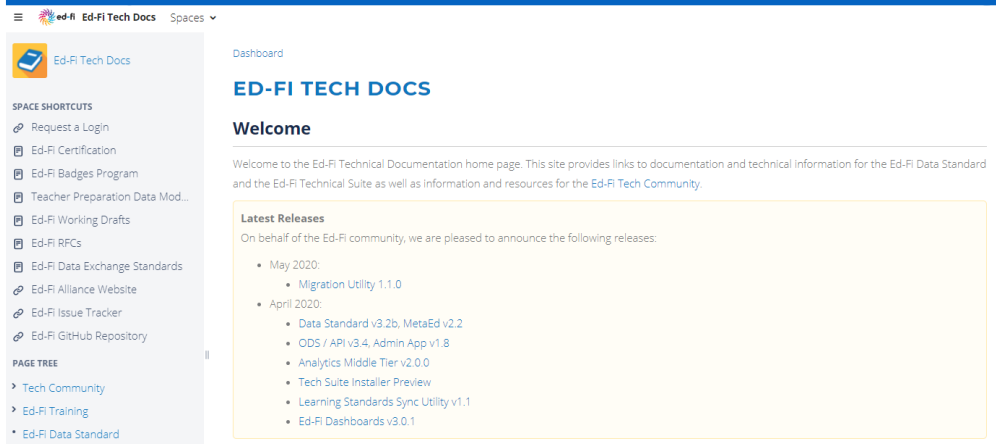
Disclaimer

- *We try hard to get this stuff right!*
- *But it doesn't always work out like we thought!*
- *If you take a mission-critical dependency*
  - *Watch the roadmap page for updates*
  - *Contact an Ed-Fi solutions architect*

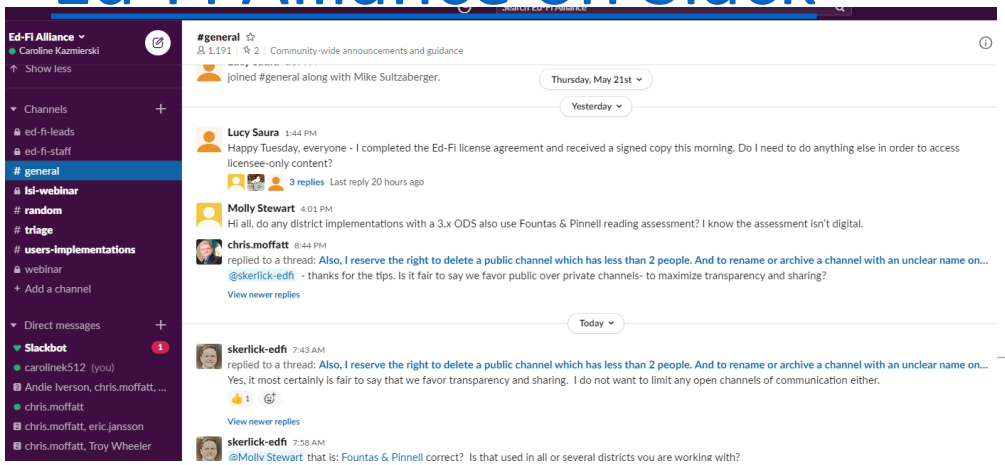
Questions?

Where to find us?

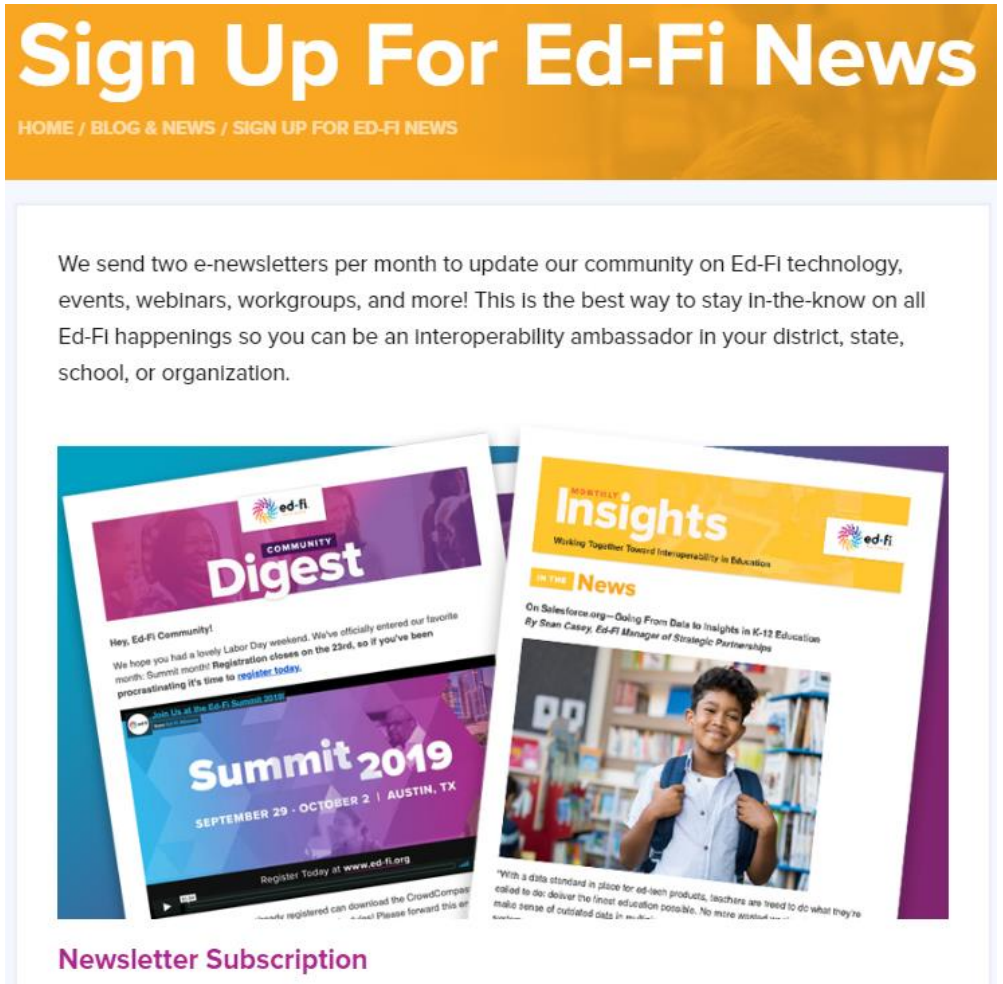
https://techdocs.ed-fi.org/



Ed-Fi Alliance on Slack



www.ed-fi.org



ed-fi®
ALLIANCE