Data Pipeline Information

Presentation to the Board of Education

April 14, 2014

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Data Pipeline Interchanges

Overview:

The data pipeline interchanges are designed to accept student submission year around. There are six interchanges: Special Education Discipline, Special Education IEP, Staff, Student, the Teacher Student Data Link, Title 1, and Teacher Student Data Link. The snapshots, typically thought of as collections, pull student information from these interchanges which decreases the redundancies in reporting data and allows for data to be cleaned on a more frequent basis.

	ADE Collection	Pipeline Interchange
Timing	- Point-in-time - Collection closes - Periodic (once a year)	Open all year
File Formats	- Flat files - One format (text)	- Flat files and web services - Multiple file formats (text, excel, xml)
Example	Student October	Student Interchange

Interchanges

Discipline

Special Education IEP

Staff

Student

Teacher/Student Data Link

Title I

Data Pipeline Snapshots

Overview:
Snapshot data represents points in time for data submission. This data is taken directly from one or more of the interchanges. For example, the collections below would pull from the specified interchange during the snapshot collection window:

Snapshot	Powered by ...(Data Sources)	Files needed
Student October	- Student Interchange - Title I Interchange - Home-based Education entry	- Student - Student School Association - Advance Course Completion - Title I (only required for certain districts) - Home-Based Education entry
Human Resources	Staff Interchange	- Staff - Staff Assignment Association
December Count	- Staff Interchange - IEP Interchange	- Staff - Staff Assignment Association - Integration with Statewide IEP Data System

Snapshots

- Snapshot Calendar
- 11th Grade Alternate Assessment
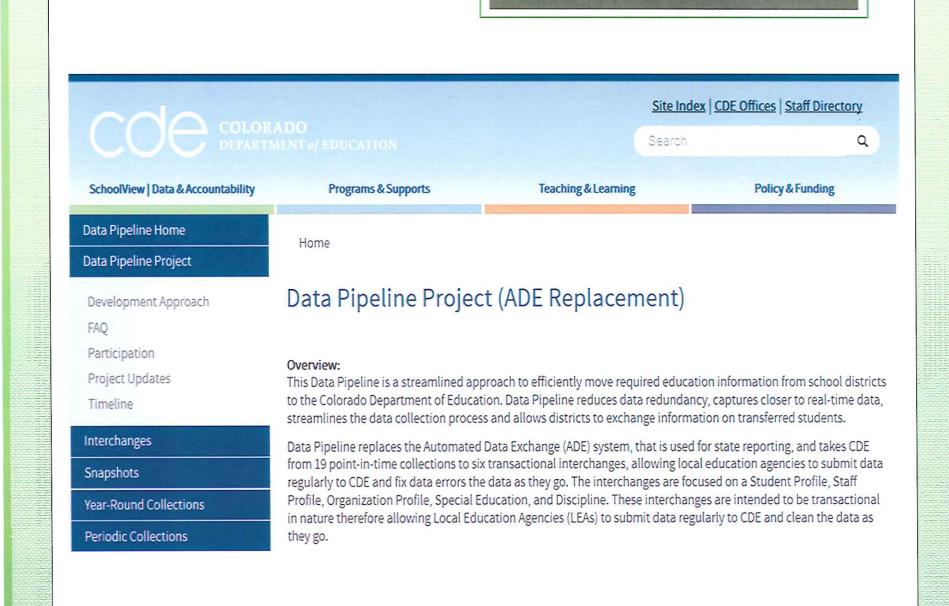- End of Year
- Human Resources
- Math and Science Partnership
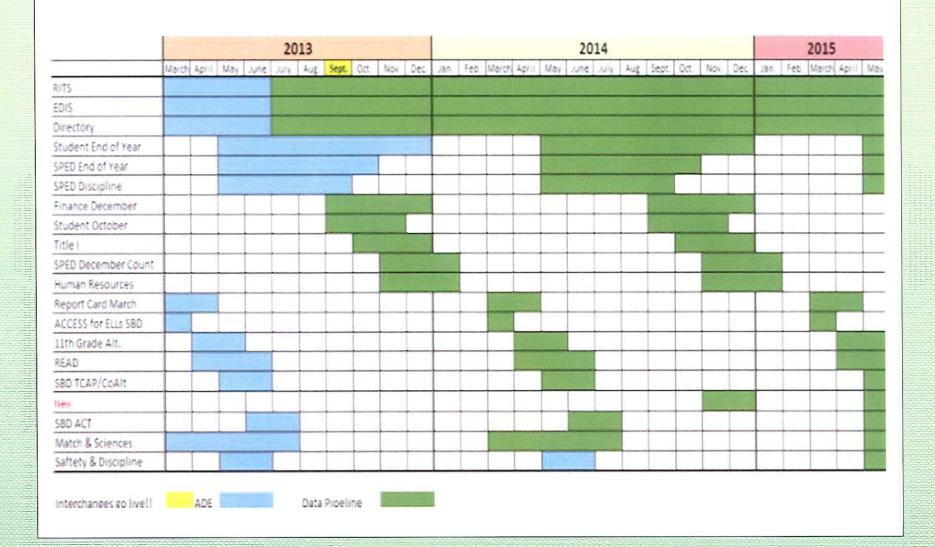- READ
- Special Education December Count
- Special Education Discipline
- Special Education End of Year
- Student October

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Data Pipeline Project (ADE Replacement)

Overview:

This Data Pipeline is a streamlined approach to efficiently move required education information from school districts to the Colorado Department of Education. Data Pipeline reduces data redundancy, captures closer to real-time data, streamlines the data collection process and allows districts to exchange information on transferred students.

Data Pipeline replaces the Automated Data Exchange (ADE) system, that is used for state reporting, and takes CDE from 19 point-in-time collections to six transactional interchanges, allowing local education agencies to submit data regularly to CDE and fix data errors the data as they go. The interchanges are focused on a Student Profile, Staff Profile, Organization Profile, Special Education, and Discipline. These interchanges are intended to be transactional in nature therefore allowing Local Education Agencies (LEAs) to submit data regularly to CDE and clean the data as they go.

Below is the rollout plan for transitioning from ADE to the Data Pipeline. Those bars in blue represent collections in ADE. As they progress to green they will be in Data Pipeline.

Legend: **A** = ADE (blue), **D** = Data Pipeline (green), "Interchanges go live!" = ADE (yellow)

	2013										2014												2015				
	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan.	Feb.	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May
RITS	A	A	A	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
EDIS	A	A	A	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Directory	A	A	A	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Student End of Year			A	A	A	A	A	A	A	A					D	D	D	D	D								D
SPED End of Year			A	A	A	A	A	A	A						D	D	D	D	D								D
SPED Discipline			A	A	A	A	A	A							D	D	D	D									D
Finance December						D	D	D										D	D	D							D
Student October							D	D	D										D	D	D						D
Title I								D	D											D	D						D
SPED December Count									D	D											D	D					D
Human Resources									D	D	D											D					D
Report Card March	A	A											D												D	D	
ACCESS for ELLs SBD	A													D	D										D	D	
11th Grade Alt.		A													D	D											D
READ		A	A	A											D	D	D										D
SBD TCAP/CoAlt			A	A												D	D	D									D
New																			D								D
SBD ACT				A	A														D	D							D
Match & Sciences	A	A	A	A													D	D	D								D
Saftety & Discipline			A	A											A	A											D

Interchanges go live! ADE Data Pipeline

Student October 2014-15 Timeline

July 2014
- Collection opens for Student October

August – October
- Trainings

October
- Official count date: Wednesday, October 1
- Complete Interchange Level edits: Friday, October 17 (suggested)
- Pass majority of Student October snapshot edits: Friday October 31 (suggested)

November
- Address final issues, review and approve data reports by November 7
- Collection Closes: Friday, November 7
- Duplicate funding documentation due Friday, November 14 (one week following collection closing)
- Audit reviews and makes a decision by Friday morning, November 21 (the week before Thanksgiving week)
- Resubmissions due Friday, November 21

Last updated: 2/20/14

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Data Pipeline Town Hall Webinar

Town Halls are a forum for Districts/BOCES/AUs to have questions answered by CDE. Each Town Hall will focus on a few topics but will be open to any questions you may have in making the transition from ADE to Data Pipeline.

Agenda for Thursday, March 13th 2014, 9:00AM - 10:00AM:

- Data Pipeline Statistics
- Human Resources
- TSDL (Teacher Student Data Link)
- Safety and Discipline
- Report Card March
- Student End of Year
- READ
- 11th Grade Alt Assessment
- Sped EOY
- Sped Discipline
- Sped December Count

http://connect.enetcolorado.org/cde-data-pipeline

NOTE: All are welcome to the Town Hall Webinars on Data Pipeline. Town Halls will be held every Thursday from 9:00 AM -10AM. There is room for 600 participants on the webinar. Dial in number is 1-866-764-6750

Resources

Overview:
This page contains resources pertaining the data collection and the pipeline system.

- Configure Internet Explorer to download Excel Files from Cognos (PDF)
- Data Pipeline Definitions (PDF)
- Data Pipeline Readiness Assessment (PDF)
- Attorney General Opinion Regarding the District Exchange of Data (PDF)
- FERPA Guidelines for Data Exchange English/Spanish (PDF)
- Identity Management (Web Link)
- Identity Management Groups (XLS)
- Identity Management Webinar (PowerPoint) (Webinar Recording)
- School View (Web Link)
- Standard Course Codes (Web Link)
- Statistics Page (Web Link)
- 2013-2014 Data Pipeline Collection Dates (XLS)
- Steps for How an AU LAM Assigns Roles in IdM Access Management (DOC)

Data Pipeline Project FAQ

Will Local Education Agencies (LEAs) have ownership of data within Data Pipeline?

Yes. Districts are the authoritative data source for the data submitted through the RISE Data Pipeline. They will have ownership over that data. And, to ensure the quality of the data, the data experts within the LEA will collaborate with other LEA and SEA data stewards to manage the data throughout each element's lifecycle. closely. Those individuals who are closest to a particular field should be the ones verifying the accuracy of that information. For example, an administrative unit would be the authoritative source for the primary disability of a student, and cooperation will occur across Local Education Agencies and CDE to ensure integrity of Special Education data. CDE is implementing a formal Data Governance program for just this reason.

How will CDE ensure the Local Education Agencies (LEAs) have ownership of the data within Data Pipeline?

A Data Governance system will be put in place to help manage and clarify data ownership and roles and responsibilities. As mentioned in question 1, this program will extend to LEA data, and will provide guidelines and templates for how all LEAs can work together with CDE to manage education data in a consistent manner.

What are the benefits of frequent submissions to Pipeline?

Data that is sent more frequently will be easier to verify for completeness and accuracy as anomalies are identified as they occur. Data issues can be addressed over time rather than just prior to a collection deadline.

Also, the same data can be used for many purposes which will eliminate collecting the same data in different collections.

How does this affect the quality of our data?

A major benefit of RISE and the use of Data Pipeline is that the data will be timelier and therefore more accurate. This is because the Data Pipeline is taking more frequently. Data can be submitted on a regular basis (nightly, weekly, monthly) and LEAs will be able to pass through tier 1 edits check to ensure the validity of the data. Data will no longer be gathered in different collections throughout the year. Instead , a data field will be gathered from the Local Education Agency's designated authoritative source and if the response to a particular data field changes for an individual, the next submission will update it within the Data Pipeline. So, outdated information will be overwritten.

The Data Pipeline will also expand its data upload capabilities. LEAs with the technological capabilities will be able to implement web services and therefore send data as frequently as nightly. For those smaller LEAs without those technological capabilities the traditional file upload will still be available. However, even through the traditional file upload, LEAs will be able to upload those files to the Pipeline more frequently to take advantage of error correction sooner.

Can you please provide more explanation on the new monthly submission process.

Districts will allowed to determine the frequency of their data submissions, however it is recommended that this is done at least monthly. When you upload the data it will go through a Level 1 edit check. When it is time for the collection window you would approve and send that data, which will then go through the Level 2 data clean up, or the more complex business rules. You will make any changes you think are needed and approve them, and then you would only need to regenerate a new snapshot. What this means is that Districts no longer have to submit multiple versions of the same file to CDE. For example, you're just submitting a student interchange file based on the frequency you determined, and then generating a snapshot for Student October specifically.

What is an Interchange?

An interchange is a method of providing data to CDE in which local education agencies (LEAs) may choose from multiple formats of flat files to submit data frequently throughout the year. Although LEAs may submit as often as they wish, CDE will be encouraging the submission of major interchanges (student and staff) at least on a monthly basis.

Additional Documents:

- Attorney General Opinion Regarding the District Exchange of Data
- State-Level Student Data Collection and Protection: February 2014
- District Guidance: Student Information Security & Privacy