The Wave Trainings

Erik Friend and Lakisha Simon
Overview

• How data gets to the Wave
• Sending SIF_Events
• Validations
• October 1 Consolidated Report (Oct 1)
• First Quarter Statistical Report (FQSR)
• Comprehensive Exit Report
Lakisha Simon
Student Information Data Specialist

Erik Friend
Executive Director of Data & Information Systems
How does data get to the Wave

• Data is sent to the Wave using 2.0r1 SIF standard
  – SIF was established in the 2005-2006 school year (70 O.S. § 3-160)
  – Used by all parties with a stake in education
Validation Rules are applied to all records as they are stored in WAVE_ODS.

- **Fail Validation**
  - Error Reports are Available to End Users
  - District Staff Corrects the Data in the SIS

- **Pass Validation**
  - Records that pass validation are marked in the WAVE_ODS
  - End User Reports

- **Event Driven Data Collection & Request/Response Collection**
  - District SIS
  - District Agent

- **ETL**
  - Valid Data
  - MyData
  - To Certification Module

- **Other Extracts**
  - District Agent
  - XML
  - JSON
Data Flow Overview
Want to know more about SIF codes?

• Read through the latest 2.x Wave Requirements Document
Sending SIF_Events

• The Wave currently collects 24 objects
  – Changes to must be sent to the Wave daily to be SIF compliant

• Changes include:
  – Adds
  – Changes
  – Deletes
SIF_Events Based Objects

• 24 objects collected by the Wave include:
  – AttendanceCodeInfo (SIF_Event)
  – CalendarDate (SIF_Event)
  – CalendarSummary (SIF_Event)
  – DisciplineIncident (SIF_Event)
  – LEAInfo (SIF_Event)
  – RoomInfo (SIF_Event)
  – RoomType (SIF_Event)
  – SchoolCourseInfo (SIF_Event)
  – SchoolInfo (SIF_Event)
  – SectionInfo (SIF_Event)
  – StaffAssignment (SIF_Event)
  – StaffPersonal (SIF_Event)
  – StudentAttendanceSummary (NOT SIF_Event)
  – StudentContact (SIF_Event)
  – StudentDailyAttendance (SIF_Event)
  – StudentPersonal (SIF_Event)
  – StudentSchoolEnrollment (SIF_Event)
  – StudentSectionEnrollment (SIF_Event)
  – TermInfo (SIF_Event)
  – MarkInfo (SIF_Event)
  – MarkValueInfo (SIF_Event)
  – SectionMarkInfo (SIF_Event)
  – GradingCategory (SIF_Event)
Sending SIF_Event Changes

• OSDE is working with vendors to resolve the issues around SIF_Event based reporting.
• What are the benefits of this work?
  – Limits the amount of data reported each day to only records that are added, changed, or deleted.
  – Reduces the burden on the infrastructure to provide more consistent reporting.
  – Creates near-real-time reporting within the ODS and faster reporting back to districts.
  – Keeps state and districts in sync all the time.
Sending SIF_Events

• RefID vs Whole Object Changes
  – RefID = Reference ID for record
  – Whole Object = (StudentPersonal, LEAInfo, CalendarSummary, etc.)

• Sending via RefID means sending only elements that were updated

• Sending via whole object means all elements are being sent
Current Wave Validations

- AttendanceCodeInfo
- CalendarDate
- CalendarSummary
- DisciplineIncident
- LEAInfo
- RoomInfo
- RoomType
- SchoolCourseInfo
- SchoolInfo
- SectionInfo
- StaffAssignment
- StaffPersonal
- StudentAttendanceSummary
- StudentContact
- StudentDailyAttendance
- StudentPersonal
- StudentSchoolEnrollment
- StudentSectionEnrollment
- TermInfo
- MarkInfo
- MarkValueInfo
- SectionMarkInfo
- StudentSectionMarks
- GradingCategory

Total Number of Records Updated and Entered to the Wave ODS on a Weekly bases both via Real Time Events and the Request Response Process.

46,000,000 +
Number of Validations by Record

• Between 20 objects there are 433 validations
  – Student Personal = 141
  – Student School Enrollment = 44

• Example:

971,492 Student Personal Records x 141 Validations =

136,980,372
Validation Checks for Student Personal
Current Validation Work

• Auto-request orphaned record objects for specific RefID’s
  – Request data for RefID’s that do not exist in dependent objects

• Redesigning Validation Rules
  – Allows for timely change of validations when changes are required
  – Allows for business owners to work with OSDE personnel to ensure correct rules are in place.
Validation Wizard BI Tool

Validation Errors

- 210233 Validation Errors
- 701K Sum of Enrollment Count
- 0.3000812 Validation Errors Per Student

Vendor Drill Down

- PowerSchool
- Wen GAGE I-SI
- StarGuard - Mizuni Agent
- Infinite Campus
- SchoolInsight
- InformationNOW - STB
- Tyler Technologies

Oklahoma State Department of Education
Champion Excellence
Current Validation Errors

• 162 Validation Rules Broken
  – Total 210567 Errors (507 Districts)
    • StateCourseCode is invalid. (318 Districts, 3145 Errors)
    • The EconomicDisadvantage and FreeReduced indicators do not align. (312 Districts, 19161 Errors)
    • The EconomicDisadvantage indicator and Direct Certification report do not align. (294 Districts, 10779 Errors)
    • Address record was not provided. (285 Districts, 5572 Errors)
    • LunchEligibilityDetermination is invalid. (245 Districts, 5641 Errors)
    • SIF_ExtendedElement FreeReduced is invalid. (212 Districts, 7718 Errors)
Overview

• How data gets to the Wave
• Sending SIF_Events
• Validations
• October 1 Consolidated Report (Oct 1)
• First Quarter Statistical Report (FQSR)
• Comprehensive Exit Report
October 1 Report

• Report is currently open
  – Certification window opens on Oct 1

• Student-level report containing all of the student in membership on October 1st
  – Used to populate other reports (Accreditation Report, Gifted Talented Report, LEP Immigrant Survey)
October 1, What’s New

• Special Education Oct 1 child count information added
  – Primary Disability
  – Secondary Disability
  – Suspected Disability
  – Aut Con Com
  – ED Con Com
  – ID Con Com
  – Hearing Con Com
  – OHI Con Com
  – OI Con Com
  – SLD Con Com

  – Speech Con Com
  – TBI Con Com
  – Visual Con Com
  – Related Service
  – Active IEP
  – Multiple Disabilities Extended School Year
  – Educational Environment
October 1, What’s New

- Two new reports under “reporting tools”
October 1, What’s New

- New columns added to Find Missing Student

<table>
<thead>
<tr>
<th>Invalid MissingSTN</th>
<th>MissingEnrollmentStatus</th>
<th>ShortenedWeekLengthError</th>
<th>PrimaryDisabilityMissing</th>
<th>DDWithNoSuspected</th>
<th>DDAAndGreaterThan9</th>
<th>DDAssuspected</th>
<th>MDAsSecondary</th>
<th>ECEnvironmentMissing</th>
</tr>
</thead>
</table>
October 1 Validations

- Objects validated that are associated with October 1 report:
  - SchoolInfo
  - StudentPersonal
  - StudentSchoolEnrollment
October 1, Things to Watch For: Dos

• Review the XSD Wizard
  – SIF messages that fail the initial SIF XSD Validation process
    • Errors due to data entry errors or issues with a SIS vendor agent configuration/mapping
  – Need help, call us
October 1, Things to Watch For: Dos

• Make sure all students have an student testing number (STN)
  – The student Contact object MUST be sent
  – Review the Data Validation Wizard and STN Wizard regularly

<table>
<thead>
<tr>
<th>Error/Issues</th>
<th>4,344</th>
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<tbody>
<tr>
<td>STN Wizard</td>
<td>633</td>
</tr>
<tr>
<td>Ownership Wizard</td>
<td>195,488</td>
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</tbody>
</table>
October 1, Things to Watch For: Dos

Student’s information is sent to the STN Assignment Process

- **100% match to another Student with an STN**
  - Student’s STN is updated to existing STN

- **Below a 75% match to another Student with an STN**
  - Student is assigned a new STN

- **Above a 75% match to another Student with an STN**
  - Student’s information is sent to the STN Wizard for review
October 1, Things to Watch For: Dos

- Review student appearing under Find Missing Student
  - Correct Non-SPED errors in local SIS
  - Correct SPED errors (SPED calls these Red Flags) in EdPlan
## October 1, Things to Watch For: Dos

<table>
<thead>
<tr>
<th>SPED Errors</th>
<th>Non-SPED Errors</th>
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</thead>
<tbody>
<tr>
<td>InvalidMissingSTN</td>
<td>SchoolID</td>
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<tr>
<td>MissingEnrollmentStatus</td>
<td>STN</td>
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<tr>
<td>ShortenedWeekLengthError</td>
<td>LocalID</td>
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<tr>
<td>PrimaryDisabilityMissing</td>
<td>Last Name</td>
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<tr>
<td>DDWithNoSuspected</td>
<td>First Name</td>
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<tr>
<td>DDAndGreaterThan9</td>
<td>Middle Name</td>
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<td>DDAsSuspected</td>
<td>Suffix</td>
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<td>MDAsSecondary</td>
<td>Birth Date</td>
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<td>ECEnvironmentMissing</td>
<td>Gender</td>
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<td>EdPlan Issue</td>
<td>Grade</td>
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<td>Hispanic</td>
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<td></td>
<td>American Indian</td>
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<td>Black</td>
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<td>Pacific Islander</td>
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<td></td>
<td>White</td>
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<td>ELL</td>
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<td>Gifted/Talented</td>
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<td>Gifted/Talented Identified</td>
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<td>Free/Reduced</td>
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<td>Economic Disadvantaged</td>
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<td>Immigrant</td>
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<td>Section 504</td>
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<td>Basis of Admission</td>
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<td>EnglishProficiencyOtherCode</td>
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<td>Bilingual</td>
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<td>LunchEligibilityDetermination</td>
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<td>ELL 1st Yr. Proficient</td>
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<td></td>
<td>ELL 2nd Yr. Proficient</td>
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<td></td>
<td>Migrant</td>
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<td>Entry Date</td>
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<td>FTPT Status</td>
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<td>MembershipType</td>
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<td>Data Validation Wizard Issue</td>
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<tr>
<td></td>
<td>District Ownership Wizard Issue</td>
</tr>
<tr>
<td></td>
<td>STN Wizard Issue</td>
</tr>
</tbody>
</table>
October 1, Things to Watch For: Don’ts

• Don’t forget students with these basis of admission codes will show up in Find Missing Students
  – ACEPT, BDR, BORDER, CHSP, COOP, COOPVOFF, COOPVON, IEPSA, IEPSAVOFF, IEPSAVON, LTSS, NR, NRISP, OTH, PK3, Pre-ISP, RBD, RBDTD, RISP, STSS, TO
First Quarter Statistical Report (FQSR)

- Currently open
  - Window closes November 30
  - Currently, districts should be reviewing and certifying Calendar data
- Alternative education program students will be viewable under their school of membership
- How to make sure alternative education/ non-accredited students show in the correct school?
  - When StudentSchoolEnrollment is sent review the following:
    - SchoolInfoRefID = Non-Accredited School Site
    - SIF_ExtendedElementName “SchoolOfMembership” = Accredited School Site
FQSR, What’s New

• TIER 2

• The Calendar Type will indicate the student uses a different calendar from other students if applicable
**FQSR, What’s New**

- Name change

<table>
<thead>
<tr>
<th>Report Link</th>
<th>Report Status</th>
<th>District Status</th>
<th>Report Opens</th>
<th>Due Date</th>
<th>Contingent Report(s)</th>
<th>Report Note</th>
<th>Program Area / Phone#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Level FQSR</td>
<td>Open</td>
<td>Open</td>
<td>8/3/18 7:00</td>
<td>11/30/18 23:59</td>
<td>None</td>
<td>No Change / Read Report</td>
<td>State Aid(405) 521-3460</td>
</tr>
</tbody>
</table>
FQSR, Things to Watch For: Dos

• Ensure the following objects are being sent to the Wave:
  – Attendance Code Info : SIF_Event based
  – Calendar Date : SIF_Event based
  – Calendar Summary : SIF_Event based
  – Student Personal : SIF_Event based
  – Student School Enrollment : SIF_Event based
  – Student Attendance Summary : NOT SIF_Event based
  – Student Daily Attendance : SIF_Event based
FQSR, Things to Watch For: Dos

• Ensure all students with valid enrollment are on report
  – Check Find Missing Students

• Resolve students with ownership issues
  – ALL ownership issues should be cleared
  – If there are issues with another district, contact your Regional Accreditation Officer (RAO)
  – If a student has a ownership issue NEITHER district will receive funding
FQSR, Things to Watch For: Dos

• Review students enrolled in alternative education or non-accredited schools to make sure they are viewable under their accredited site
• Ensure that all report elements are correct
• Do try and certify calendars BEFORE October 1st
FQSR, Things to Watch For: Don’ts

• Don’t ignore Data Validation Wizard
Comprehensive Exit Report

• Students who were previously enrolled at your site will show on this report
  – Report populates from the previous school year October 1 Report and SMART report
• This is the only place to report 5th and 6th year graduates
Comprehensive Exit Report, Things to Watch For: Dos

• Make sure to review these Report Categories:
  
  – 01- Graduated
    • SIF Code = 1921
  – 02- Exited to another diploma issuing school
    • SIF Code IN (1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1919, 3503, 3508)
  – 03- Dropped Out
    • SIF Code IN (1927, 1931, 3502)
  – 04- Emigrated
    • SIF Code = 1916
  – 05- Died
    • SIF Code = 1923 AND ExitTypeCode/Other Code = 1923D
  – 06- Exited to Non-diploma issuing school or institution
    • SIF Code = 1917
  – 07- Exited to homeschooling
    • SIF Code = 1918
Comprehensive Exit Report, Things to Watch For: Dos

• Make sure to review these Report Categories:
  
  - 09 - Exited Reached Maximum Age of Services
    • SIF Code = 1926
  - 10 - Exited Suspension
    • SIF Code = 1925
  - 11 - Exited Completed IEP, but did not receive a diploma
    • SIF Code IN (1922, 1928)
  - 12 - Finished out the Year
    • SIF Code = 3505
  - 13 - Never Enrolled
    • SIF Code = 1931
  - 15 - Permanently Incapacitated
    • SIF Code = 1923
Historical Cohort Report, Things to Remember

• StudentPersonal $\rightarrow$ OnTimeGraduationYear
  – Does not change

• StudentPersonal $\rightarrow$ ProjectedGraduationYear
  – Can change

• Students no longer enrolled
  – Included in graduation rate
Comprehensive Exit Report, Things to Watch For: Dos

• Remember that cohort year cannot be changed:
  – Calculated the first time a student enters the 9th grade
  – Will line up with StudentPersonal → OnTimeGraduationYear
Thank you for your time!

• Outstanding Questions?
  – We’re here to answer
  – Or contact The Office of Student Information at:
    • (405) 521-3020
    • Erik.Friend@sde.ok.gov
    • Lakisha.Simon@sde.ok.gov