

## **Resync State Data (State)**

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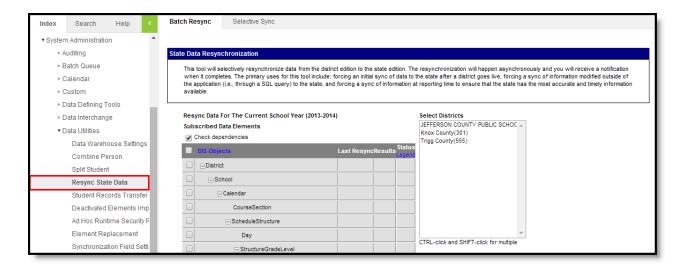
Manually Resync Data | Use the Resync State Data Tool | Resync Data from the Previous or Next School Year | Analyze Resync Attempts and Results | Understand Campus Object Dependencies and Hierarchy | Technical Information

**PATH:** System Administration > Data Utilities > Resync State Data

The Resync State Data tool may be used by district and/or state administrators to manually (re)synchronize batches of district-level data to the state.

District-level users, please see the Resync State Data (District) article. This tool is only applicable in a district/state operating as part of an Infinite Campus State or Regional Edition.

To view State and District ownership over fields within each product area, see the Synchronization Field Settings tool. This tool indicates which fields are locked at the district level and trigger a sync event when modified at the state level.



Resync State Data Tool - State Edition

## **Manually Resync Data**

To ensure a state/regional database has the most current and accurate information available, it may be necessary for districts to resync - or push - batches of data to the state/regional level. The state can require a resync of district data, as needed.



Performing a manual resync may slow system performance.

#### **Resync Scenarios**

A district can resync its data to the state, as needed. However, the following resync scenarios are **mandatory:** 

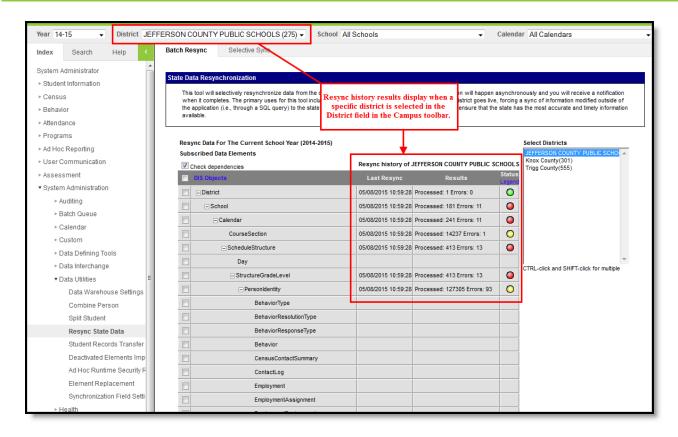
- **End of a school year** A resync must be performed at the end of a school year, after districts have finished entering all data for that year. This resync must be completed before the scoped year of the district/state zones is switched to the new school year. This should be a full resync.
- **Start of a school year** A resync must be performed at the beginning of a school year, after all enrollments have been rolled forward and the scoped year of the district/state Zones has been updated to match the new school year. This should be a full resync.
- **Database modifications** A resync must be performed if data is modified directly within the database, instead of within the Campus interface. Modifying data within the database is not recommended. This may be a partial or full resync.
- **State resync request** The state may request a resync for the purpose of state reporting, gathering attendance snapshots, pulling end-of-year attendance summaries, etc. Districts cannot deny or prevent a resync initiated by the state. This may be a partial or full resync.

Infinite Campus strongly recommends using the state Verification Summary tool to generate district/state verification reports before resynching a scenario not listed above. Comparing verification report results will indicate whether or not a resync is necessary.

### **District-Specific View (Shows History Columns)**

The resync history/results columns will only appear when a district is selected from the **District** field of the Campus toolbar:



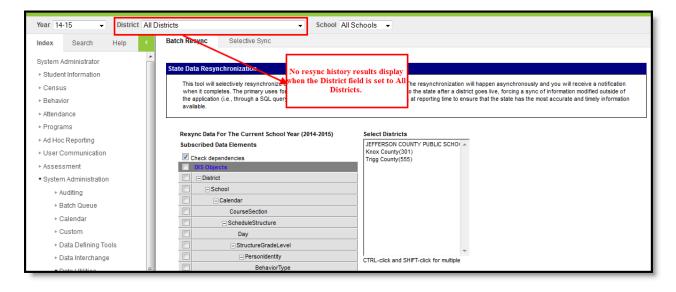


State Resync Tool (with History Columns)

If no resync has been performed, the resync history/results columns will be blank.

### "All District" View (No History Shown)

No history/results columns will appear if "All Districts" is selected in the **District** field of the Campus toolbar:





State Resync Tool (No History Columns)

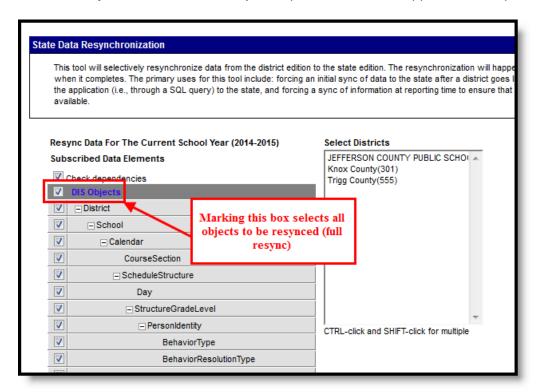
## **Use the Resync State Data Tool**

The Resync State Data tool is accessible at both the district and state levels. The state can require its districts to resync some or all data. When a resync is initiated by the state, the data is automatically pulled and no action is required of the district.

Resyncs should only be performed by system administrators and/or Campus Support personnel who are familiar with the Understanding Campus Object Dependencies and Hierarchy section of this page.

#### **Full Resync**

A full resync indicates all data objects that report to the state will be resynched. This process will automatically follow the chain of object dependencies that support the Campus hierarchy.



Full Resync (All Objects)

- Select a district(s) to resync from the **Select Districts** box. If a district is set in the the
  District field of the Campus toolbar, it will already be selected in this box.
- 2. Select the **DIS Objects** checkbox in the top left column of the table. All data objects listed on the tool will be selected.
- 3. Click the **Request Resync** button, located below the table.
- 4. Click the **OK** button on the verification pop-up window. All data objects will be resynched from

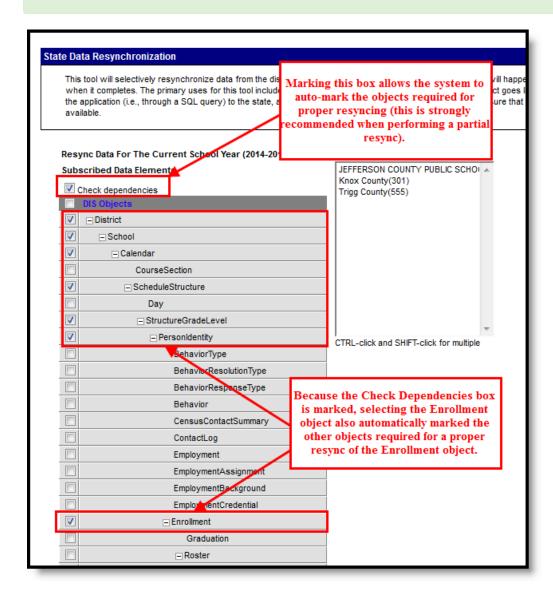


the district-level database to the state-level database.

#### **Partial Resync**

When a full resync is unnecessary, a partial resync may be performed. A partial resync involves specific data objects selected for resync by a user (instead of resynching all objects).

The **Check Dependencies** box should be marked when performing a partial resync. This ensures synching of all necessary parent objects (on which the desired resync object is dependent). Please refer to the <u>Understanding Campus Object Dependencies and Hierarchy</u> section of this page for more information related to synching and dependent relationships between parent/child objects.



Partial Resync with Check Dependencies Box Selected

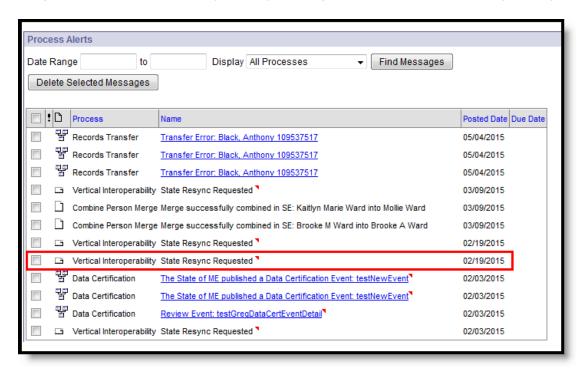
- 1. Select a district(s) to resync from the **Select Districts** box.
- 2. Mark the Check Dependencies checkbox.



- 3. Mark the checkboxes of the data objects to be resynched.
- 4. Click the **Request Resync** button, located below the table.
- 5. Click the **OK** button on the verification pop-up window. All data objects will be resynched from the district-level database to the state-level database.

#### **State-Initiated Resync Requests**

When the state requests a resync of a district, a notification appears in the Process Alerts (formerly Process Inbox) of district and state-level users with the proper tool rights. The message will be categorized as a Vertical Interoperability message and named as "State Resync Requested."



State-Initiated Resync Message in District Process Alerts

A district user cannot stop or prevent a resync that has been initiated by the state, nor can he/she view the objects requested for resync.

# Resync Data from the Previous or Next School Year

This option is only available to districts that have been configured to sync data for the previous and/or next school year (in addition to the current year).

If the district has been configured to sync data for the previous and/or next school year (in addition to the current year), the data objects available for resync will be limited. To resync data from the previous or next school year, the **Year** field of the Campus toolbar must be set to the desired year. A limited set of objects will be displayed.

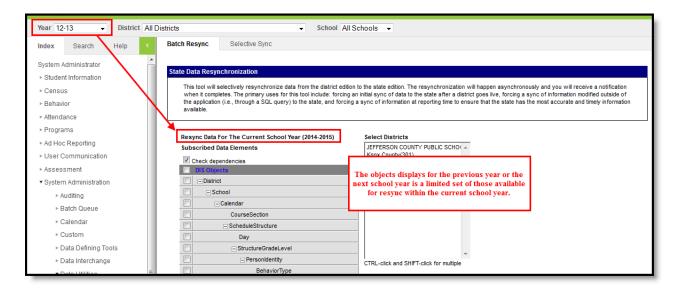


Objects that appear on the Resync State Data tool when the previous/next school year is selected will meet both of the following criteria:

- Objects are related specifically to the school year displayed in the **Year** field of the Campus toolbar.
- Objects have been configured to sync for the school year displayed in the Year field of the Campus toolbar.

Objects that do NOT appear on the Resync State Data tool when the previous/next school year is selected will meet one or both of the following criteria:

- Objects that are not tied to a school year will not display when the previous/next year is selected in the **Year** field of the Campus toolbar. To resync these objects, the current school year must be selected in the **Year** field of the Campus toolbar.
- Objects that are not configured to sync for the previous/next school year will not appear.



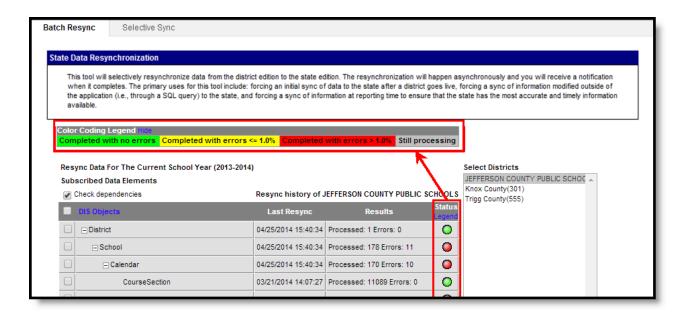
Sync Data from a Previous School Year

A resync of the previous/next school year may be performed in the same manner(s) as the current year, as listed in the Using the Resync State Data Tool (State Level) section.

## **Analyze Resync Attempts and Results**

The manual resync process may warrant user analysis of resync attempts and results. The Resync State Data tool displays basic details related to state resync requests:





#### Resync Summary

- Last Resync column Displays the date and time the last resync was started for the object.
- **Results column** -Hovering over a result will indicate the total number of records sent for resync. This column displays two types of results for the object:
  - Processed The total number of attempts to resync records.
  - o Errors- The total number of records that did not resync to the state.

The *Errors* number includes sync failures as well as attempts to sync records that are not allowed to sync to the state (*i.e.*, state-excluded enrollments, state-excluded grade levels, state-excluded calendars, etc.). Checking the district agent's log on the Agents tool will allow system administrators to review errors.

- **Status column** Displays a colored dot indicating the level of sync success. Clicking on the **Legend** link in the header of this column will show a key that explains the logic used for the colored dots in this column.
  - Green Indicates that the sync finished without any errors.
  - *Yellow* Indicates that the sync finished with less than or equal to 1% of sync attempts resulting in error.
  - Red Indicates that the sync finished with more than 1% of sync attempts resulting in error
  - Gray Indicates that the sync is currently in-progress.

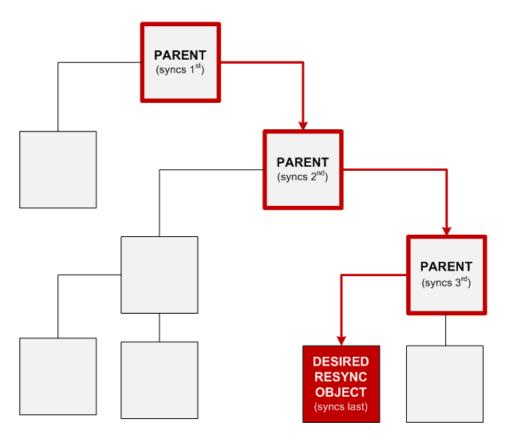
The following tools may also be used for additional analysis of resync attempts:

- Agents Tool Agent Queue
- Agents Tool Agent Log
- Error Log Tool



# **Understand Campus Object Dependencies and Hierarchy**

Campus data objects exist in a hierarchical structure enforced by database dependencies. Database tables use foreign keys to link related tables/data objects. This creates a dependency chain of parent/child relationships between objects which require the "parent" to be synchronized before the "child." When all available data objects are resynchronized, the process follows the natural order of object dependencies.



Resync Object Dependencies and Hierarchy

However, when only select data objects should be resynched, the system must follow a specific order to sync all appropriate "parent" object(s) before the desired "child" object(s). Resynching certain data objects (instead of all objects) will result in error if the necessary parent object(s) have not been properly resynched first. The Resync State Data tool allows the system to properly sync objects in the intended parent/child order.

## **Campus Object Hierarchies**

Campus resync object hierarchies are explained in the following key and table.

- **Resync Object column --** Lists the data objects available for manual resynching on the Resync State Data tool. This is the object selected for resynching by user.
- Parent Objects column -- Lists the "parent" objects on which the Resync Object is dependent. Parent objects are listed in dependency order (top-level parent listed first,



- immediate parent listed last). The immediate "parent" of the Resync Object is bolded and indicated by an asterisk [\*].
- **Child Objects column --** Lists the "child" objects that are dependent on the Resync Object. Child objects are listed in alphabetical order. The immediate "child" object(s) of the Resync Object are bolded and indicated by an asterisk [\*].

All sync objects are listed in the table below; however, not all objects are applicable to all districts/states/regions.

Resync Object	Parent Objects	Child Objects
AttendanceBIEAbsentDays	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
AttendanceExactCount	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
AttendanceGroupKY	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
AttendanceKYMinute	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
AttendanceMTSnapshot	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects



Resync Object	Parent Objects	Child Objects
AttendanceSDMinute	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
AttendanceExcuse	District School Calendar*	AttDayAggregation
AttDayAggregation	District School Calendar AttendanceExcuse ScheduleStructure PeriodSchedule Day StructureGradeLevel Personldentity*	No dependent objects
Behavior	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects



Resync Object	Parent Objects	Child Objects
Calendar	District School*	AttendanceBIEAbsentDays AttendanceExactCount AttendanceGroupKY AttendanceKYMinute AttendanceSDMinute Behavior CensusContactSummary ContactLog CourseSection* CustomStudent Day Employment EmploymentBackground EmploymentCredential Enrollment ESSKY Form FRYSCGroupProgramKY FRYSCGroupStatusKY GiftedStatusKY GiftedStatusKY Graduation HealthScreening ImmCertificate LEPKY MedicaidInsurance NASIS PersonIdentity PersonIdentity PersonIdentity PersonIdentity ProcessMessage ProgramParticipation Roster ScheduleStructure* StructureGradeLevel TEDSKY Test TestScore Title1KY TranscriptCourseSE Transportation Truancy



Resync Object	Parent Objects	YaccineShot Child Objects
CensusContactSummary	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
ContactLog	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
CourseCode	No parent dependencies	No dependent objects
CourseSection	District School Calendar*	No dependent objects
CustomStudent	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
CTEDataME	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
EarlyWarningScoreDaily	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
EarlyWarningScoreMonthly	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
EarlyWarningScoreYearly	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects



Resync Object	Parent Objects	Child Objects
Day	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
District	No parent dependencies	AttendanceBIEAbsentDays AttendanceExactCount AttendanceGroupKY AttendanceKYMinute AttendanceMTSnapshot AttendanceSDMinute Behavior CensusContactSummary ContactLog CourseSection CustomStudent Day Employment EmploymentAssignment EmploymentBackground EmploymentCredential Enrollment ESSKY Form FRYSCGroupProgramKY FRYSCGroupStatusKY GriftedStatusKY Graduation HealthScreening ImmCertificate LEPKY MedicaidInsurance NASIS PersonIdentity PersonIdentity PersonIdentity PersonIdentity PreSchoolKY ProcessMessage ProgramParticipation Roster ScheduleStructure School StructureGradeLevel



Resync Object	Parent Objects	TEDSKY Child Objects Test
		TestScore Title1KY TranscriptCourseSE Transportation Truancy VaccineShot
Employment	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
EmploymentAssignment	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
EmploymentBackground	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
EmploymentCredential	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
Enrollment	District School Calendar ScheduleStructure PersonIdentity*	AttendanceBIEAbsentDays* AttendanceExactCount* AttendanceGroupKY* AttendanceKYMinute* AttendanceMTSnapshot* AttendanceSDMinute* CustomStudent* ESSKY* FRYSCStatusKY* Graduation* PreSchoolKY* Roster* Evaluation* TeamMember* Title1KY*



Resync Object	Parent Objects	Child Objects
ESSKY	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
Evaluation	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
Form	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
FRYSCGroupProgramKY	District School Calendar ScheduleStructure PersonIdentity*	FRYSCGroupStatusKY*
FRYSCGroupStatusKY	District School Calendar ScheduleStructure PersonIdentity* FRYSCGroupProgramKY*	No dependent objects
FRYSCStatusKY	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
GiftedStatusKY	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects



Resync Object	Parent Objects	Child Objects
Graduation	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
HealthScreening	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
ImmCertificate	District School Calendar ScheduleStructure PersonIdentity *	No dependent objects
<b>ISEPResidentialCertification</b>	No parent dependencies	No dependent objects
<b>ISEPResidentialVerification</b>	No parent dependencies	No dependent objects
LepKY	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
MedicaidInsurance	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
NASIS	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects



Resync Object	Parent Objects	Child Objects
PersonIdentity	District School Calendar ScheduleStructure*	AttendanceBIEAbsentDays AttendanceExactCount AttendanceGroupKY AttendanceKYMinute AttendanceMTSnapshot AttendanceSDMinute Behavior* CensusContactSummary* ContactLog* CustomStudent Employment* EmploymentBackground* EmploymentBroupmentCredential* Enrollment* ESSKY Form* FRYSCGroupProgramKY* FRYSCGroupStatusKY GiftedStatusKY GiftedStatusKY* Graduation Health Screening* ImmCertificate* LEPKY* MedicaidInsurance* NASIS* Plan* PlanProgressReport POSEligbility* PreSchoolKY ProcessMessage* ProgramParticipation* Roster TEDSKY* Test* TestScore Title1KY TranscriptCourseSE * Transportation* Truancy* VaccineShot*



Resync Object	Parent Objects	Child Objects
PersonIdentityNoStateIDOnly	District School Calendar ScheduleStructure*	No dependent objects
Plan	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
PlanProgressReport	District School Calendar ScheduleStructure PersonIdentity Plan*	No dependent objects
POSEligibility	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
PreSchoolKY	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
ProcessMessage	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
ProgramParticipation	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
PublishedTabCustomStudent	District School Calendar ScheduleStructure Day StructureGradeLevel PersonIdentity*	No dependent Objects



ResynctionsEctity	Parentobjects	CRING ON THE REPORTING ENTITY OBJECT IS USED)
		AttendanceBIEAbsentDays
No longer available for		AttendanceExactCount
Montana users.		AttendanceGroupKY
		AttendanceKYMinute
		AttendanceMTSnapshot
		AttendanceSDMinute
		Behavior
		Centertles
		ContactLog
		CourseSection
		CustomStudent
		Day
		Employment
		EmploymentAssignment
		EmploymentBackground
		EmploymentCredential
		Enrollment
		ESSKY
		Form
		FRYSCGroupProgramKY
		FRYSCGroupStatusKY
		FRYSCStatusKY
		GiftedStatusKY
		Graduation
		HealthScreening
		ImmCertificate
		LEPKY
		MedicaidInsurance
		NASIS
		PersonIdentity
		PersonIdentityNoStateIDOnly
		Plan
		PlanProgressReport
		Poschoolty
		PreSchoolKY
		ProcessMessage
		ProgramParticipation
		Roster
		ScheduleStructure
		School*
		StructureGradeLevel
		TEDSKY
		Test
		TestScore
		Title1KY
		TranscriptCourseSE



Resync Object	Parent Objects	Child Objects Truancy
		VaccineShot
Roster	District	No dependent objects
	School	
	Calendar	
	ScheduleStructure	
	StructureGradeLevel	
	PersonIdentity	
	Enrollment*	



Resync Object	Parent Objects	Child Objects
ScheduleStructure	District School Calendar*	AttendanceBIEAbsentDays AttendanceExactCount AttendanceGroupKY AttendanceMTSnapshot AttendanceSDMinute Behavior CensusContactSummary ContactLog CustomStudent Day* Employment EmploymentAssignment EmploymentBackground EmploymentCredential Enrollment ESSKY Form FRYSCGroupProgramKY FRYSCGroupStatusKY Graduation HealthScreening ImmCertificate LEPKY MedicaidInsurance NASIS PersonIdentity* PersonIdentity* PersonIdentityNoStateIDOnly* Plan PlanProgressReport POSEligbility PreSchoolKY ProcessMessage ProgramParticipation Roster StructureGradeLevel* TEDSKY Test TestScore Title1KY TranscriptCourseSE Transportation Truancy VaccineShot



RESYNC Object	Parent Objects	AttendanceExactCount
		AttendanceExactCount
		AttendanceKYMinute
		AttendanceMTSnapshot
		AttendanceSDMinute
		Behavior
		Calendar*
		CensusContactSummary
		ContactLog
		CourseSection
		CustomStudent
		Day
		Employment
		EmploymentAssignment
		EmploymentBackground
		EmploymentCredential
		Enrollment
		ESSKY
		Form
		FRYSCGroupProgramKY
		FRYSCGroupStatusKY
		FRYSCStatusKY
		GiftedStatusKY
		Graduation
		HealthScreening
		ImmCertificate
		LEPKY
		MedicaidInsurance
		NASIS
		PersonIdentity
		PersonIdentityNoStateIDOnly
		Plan
		PlanProgressReport
		POSEligbility
		PreSchoolKY
		ProcessMessage
		ProgramParticipation
		Roster
		ScheduleStructure
		StructureGradeLevel
		TEDSKY
		Test
		TestScore
		Title1KY
		TranscriptCourseSE
		Transportation
		Truancy
		Tradify



Resync Object	Parent Objects	Child Objects
StructureGradeLevel	District School Calendar ScheduleStructure*	No dependent objects
TeamMember	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
TEDSKY	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
Test	District School Calendar ScheduleStructure PersonIdentity*	TestScore*
TestScore	District School Calendar ScheduleStructure PersonIdentity* Test*	No dependent objects
Title1KY	District School Calendar ScheduleStructure PersonIdentity Enrollment*	No dependent objects
TranscriptCourseSE	District School Calendar ScheduleStructure StructureGradeLevel PersonIdentity*	No dependent objects
Transportation	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects



Resync Object	Parent Objects	Child Objects
Truancy	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects
VaccineShot	District School Calendar ScheduleStructure PersonIdentity*	No dependent objects

# **Technical Information**

The *DISBatchHistory* database table stores historical information related to resync requests. Though only the most recent request summary information appears in the user interface, historical resync summary data is stored in the table.