

North Carolina Customizations-eScholar Real Time and Bulk Syncing

PowerSchool
Student Information System

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This edition applies to Release 8.x of the PowerSchool software and to all subsequent releases and modifications until otherwise indicated in new editions or updates.

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Real-time Synchronization

Overview

PowerSchool will send a request to eScholar to update student information any time certain information is updated on the "Demographics" screen in PowerSchool, or if a student is transferred to another school in the same district or a different district via the student transfer process.

When a user updates information on the "Demographics" screen and clicks the submit button, PowerSchool will evaluate the changed information and determine if an update needs to be sent to eScholar. PowerSchool will evaluate the response from eScholar. If eScholar responds indicating that the information sent was updated, it will commit the changes the user has made to the PowerSchool system. In certain situations eScholar may not be able to determine an "exact match" to a student based on the information it was provided and will respond with a list of "near matches". These will be displayed on the page. The user will have the option of selecting one of the near matches to update, or cancel the request. If the eScholar system is unavailable, the changes will be committed to the PowerSchool system. If data entered does not pass validation, e.g., a letter in the social security number field, the user will be presented with an error message and be required to fix the error prior to submission.

Monitored Fields

Changes to the following fields on the "Demographics" screen will trigger PowerSchool to send an update to eScholar.

- Last Name
- First Name
- Middle Name
- Date of Birth
- Gender
- Social Security Number
- Race
- Federal Ethnicity
- Student Number

Information Sent to eScholar

The following information is sent to eScholar in every request.

- Last Name
- First Name
- Middle Name
- Date of Birth
- Gender
- Social Security Number
- Race
- Federal Ethnicity
- Student Number
- Grade Level

Reports and Bulk Synchronization

Overview

A “bulk” update file will be sent to eScholar weekly. This file will contain student records which have been updated since the last weekly upload. Student records are monitored for certain changes, when a change is determined to have occurred, the information will be uploaded in the next weekly upload.

Fields Monitored

Changes to the following fields will trigger an update to eScholar.

- School ID (student has changed schools)
- Last Name
- First Name
- Middle Name
- Gender
- Date of Birth
- Grade Level
- Social Security Number
- Federal Ethnicity
- Race
- Guardian First Name
- Guardian Last Name

Information Sent to eScholar

The following information is sent to eScholar in every bulk update

- District and School Number
- Last Name
- First Name
- Middle Name
- Gender
- Date of Birth
- Grade Level
- Student Number
- Race and Ethnicity
- State Student Number
- Current District Code
- Current School Year
- Living with Guardian (Guardian first and last name)

Frequency of Processing

Weekly

Reports

The "eScholar Error" report is generated from the files that are sent to eScholar weekly. That file contains information about the student records that were not successfully sent to eScholar via the Real Time Sync. The "eScholar Batch Errors" report is generated from the file that eScholar sends back to PowerSchool with records that were Rejected and Canceled.

eScholar Errors

A report of errors having occurred with the real-time sync process can be found at Start > System Reports > NCDPI Reports (tab) > eScholar Errors.

The report allows the user to filter errors by date, error type, and student number.

Runtime Parameters

From Date & To Date

Select dates between which the report will display errors.

Error Type:

The available error types are dynamically generated from those available in the error log table.

Error - A general error, such as the inability to connect to eScholar
FAILED_VALIDATION - Usually caused by invalid information in a required field

Student number:

If no student number is selected the report will search all students.
If a student number is input into the "student number" field, the report will search for that student.

Report Output

Error Date - The date the error occurred

LEA - The District and school at which the error occurred
Student ID - The student number of the student involved
Error Type - A short description of the error
Error Text - The full error message received from eScholar

eScholar Batch Errors

A report of errors having occurred during the bulk sync process can be found at Start > System Reports > NCDPI Reports (tab) > eScholar Batch Errors.

The report can filter errors by date, eScholar error file type, or student number.

Runtime parameters

From Date & To Date

Select dates between which the report will display errors.

File Type:

Cancelled - Records from an eScholar cancelled file type
Rejected - Records from an eScholar rejected file type

Student number:

If no student number is selected the report will display errors for all students.
If a student number is input into the "student number" field, the report will display errors involving that student.

Report Output

All field information is as submitted to eScholar.

File Type - Cancelled or Rejected - Determines the source of the record
File Name - The name of the file the record is from
Date - The date the record was created
School Code - The school number of the student
Resident District Code - The district of residence for the student
Last Name - The last name of the student
First Name - The first name of the student
Middle Name - The middle name of the student
Name Suffix - The optional suffix of the student's name (Jr. Sr., etc.)
Gender - The student's gender

DOB - The student's date of birth
Current Grade Level - The student's grade level
Local Student ID - The student's State ID number
SSN - The student's social security number
Race/Ethnicity - The student's race/ethnicity
Current District Code - The student's current district
Current School Year - The current school year
Alternate Last Name - The student's alternate last name, if any
Alternate ID - The student's alternate ID number
Alternate Source - The source of the alternate information
Customer Defined Field 1 - Guardian/Living With
Customer Defined Field 2 - Unused
Customer Defined Field 3 - Unused
Customer Defined Field 4 - Unused
Customer Defined Field 5 - Unused
Customer Defined Field 6 - Unused
Customer Defined Field 7 - Unused
Customer Defined Field 8 - Unused
Record Status - Internal transaction status
Record Reference Number - Internal record reference number
Ethnicity Indicator - Unused
Race 2 Code - Unused
Race 3 Code - Unused
Race 4 Code - Unused
Race 5 Code - Unused
Record Update Date - Date of the last update for the record
Error Detail - Error detail as provided by eScholar