

## OneRoster 1.2 Data Models Used for CUES

Last Modified on 2/21/2025

This document is a subset of [OneRoster 1.2 Data Models](#) from the Infinite Campus Knowledgebase for the Connected User Experience System (CUES). OneRoster is a set of specifications established by the 1EdTech Learning Consortium. *Items in italics are the Kentucky Department of Education (KDE) instructions for CUES.*

See the [OneRoster API](#) article for more information about OneRoster and the [Configuring OneRoster Connections](#) article for instructions on setting up a 1.2 connection to Rapid Identity. *The KDE recommends not using the Include Legal Name option. If legal name is provided, it will be used to create accounts. New connections default to not include legal names.*

The tables below lay out the OneRoster 1.2 specification and identify, where applicable, the location in the Campus interface and database where this data populates, with any additional information. *When the Data Element Name in OneRoster Spec field is **green and bolded** this data element will be used to create the CUES identity for students. See the [Enrollment](#) data standard for Kentucky guidance on creating a student in Infinite Campus.*

### CUES Notes:

- *For a student to be provisioned into CUES:*
  - **UPDATE: An Infinite Campus user account is not needed. OneRoster 1.2 includes people without an Infinite Campus user account.**
  - *They must have an active enrollment in the active year without External LMS Exclude selected for a student to be provisioned into CUES.*
- *The CUES process will*
  - *create student's email address and write it back to Infinite Campus.*
  - *store the existing Campus local authentication username as an attribute for SAML authentication via CUES.*
- *Multi-factor Authentication (MFA) may require Contact Cell Phone for students as a form of initial account claim or as a form of MFA.*
- *For an overhead view of the CUES Project architecture, project timelines, and other information, visit the [KETS CUES Resource Hub](#).*

See the [OneRoster API Documentation \(OAuth 2\)](#) article to verify the data that your district makes available in the OneRoster API.

### What are 'SourcedIDs'?

The sourcedId of a record is a key piece of data used to identify that record. This value is usually the unique identifier for an element, such as the GUID. In the tables below, the sourcedId is the first element listed for each endpoint, with examples provided.

## Users

*CUES will use 2 of the 6 roles in the Campus implementation of OneRoster 1.2:*

- **Student:** A person with an Enrollment in the active year. Enrollments marked as No Show are not returned.
- **Teacher:** A person with a District Assignment in the active year with a role of Teacher marked.

Users Data Element Name in OneRoster Spec ( <b>Green bolded</b> items are required for CUES)	Campus Interface & Database Location	Description & Notes
<b>sourcedId</b>	Census   People   Demographics   Person GUID Person.personGUID	Returns the PersonGUID of the person this user pertains to. e.g. 5356590D-A812-4E74-AF6F-4C96C00264CC
<b>status</b>	Returns an indication of whether the user is active.  <b>Student:</b> Student Information   General   Enrollments   End Date Enrollment.endDate  <b>Teacher/Aide/District Administrator:</b> Census   Staff   District Assignment   End Date EmploymentAssignment.endDate	Students are considered active if they have an active Enrollment according to the enrollment End Date.  Teachers and Administrators are considered active if they have an active District Assignment according to assignment End Date.
dateLastModified	Returns the last Modified Date according to the user's role, or as 1970-01-01 if null.  <b>Students:</b> Enrollment.modifiedDate, Identity.modifiedDate, UserAccount.modifiedDate, Contact.modifiedDate  <b>Non-Students:</b> EmploymentAssignment.modifiedDate, Identity.modifiedDate, UserAccount.modifiedDate, Contact.modifiedDate	For students, reports the last modified date of their Enrollment, Identity, User Account, or Contact record.  For non-students, reports the most recent last modified date of their District Assignment (when applicable), Identity, User Account, or Contact record.
metadata	<b>ic.legacySourcedId</b> Census   People   Identities   PersonID Person.personID  <b>ic_relationships</b>	Returns the 'numeric' part of a OneRoster 1.1 sourcedId to help partners map users from 1.1 to 1.2. e.g. ic.legacySourcedId: 123 Returns a list of the people who

<b>Users Data Element Name in OneRoster Spec</b> (Green bolded items are required for CUES)	<b>Campus Interface &amp; Database Location</b>	<b>Description &amp; Notes</b>
metadata (cont.)	Census > People > Relationships > "Portal" and "Guardian" checkbox	have Portal access to this user. Each entry contains the following information: <ul style="list-style-type: none"> <li>• sourcedId – Sourced ID of the related user</li> <li>• guardian – "true" or "false" based on whether this is a guardian relationship</li> <li>• relationshipType – The type of relationship defined in Campus (e.g. "Guard: Father", "Sibling")</li> </ul>
<b>userMasterIdentifier</b>	<b>Students:</b> Census   People   Demographics   Student State ID Person.stateID <b>Teachers:</b> Census   People   Demographics   Staff State ID Person.staffStateID	Returns the student's State ID  Returns the teacher's Staff State ID <i>which is not used in Kentucky.</i>
<b>username</b>	Census   People   Identities   Person ID Person.personID	PersonID is returned through the username property. UserAccount(s) can be found in the userIDs array property.
userIDs	User Management   User Accounts   User Account Information UserAccount.userName, UserAccount.homepage, UserAccount.disable, UserAccount.expiresDate, UserAccount.userID	Returns a list of User Accounts for the user, with the following properties: <ul style="list-style-type: none"> <li>• identifier – The username for the user account</li> <li>• type – Derived based on the homepage of the user account:               <ul style="list-style-type: none"> <li>○ infiniteCampusStudent – Campus Student Portal</li> <li>○ infiniteCampusTeacher – Campus Instruction</li> <li>○ infiniteCampusRelative – Campus Parent Portal</li> </ul> </li> </ul>

<b>Users Data Element Name in OneRoster Spec</b> (Green bolded items are required for CUES)	<b>Campus Interface &amp; Database Location</b>	<b>Description &amp; Notes</b>
userIds (cont.)		<ul style="list-style-type: none"> <li>○ infiniteCampus – Other/Unknown Homepage (Generally for non-teacher staff)</li> </ul> <p>Multiple userIds are listed only if multiple user accounts are active for the user. Inactive user accounts may be returned if there are no active user accounts.</p>
enabledUser	User Management   User Accounts   User Account Information   Disabled/Expires Date UserAccount.disable, UserAccount.expiresDate	<p>Returns true if the user has any active user accounts, otherwise returns false.</p> <p>A user account is considered active if it is not disabled and it's expiration date has not passed.</p>
<b>givenName</b>	Census   People   Identities   First Name or Legal First Name Identity.firstName or Identity.legalFirstName	<p>If a legal first name exists for the user AND the setting to <a href="#">Include Legal Names</a> is marked, returns the legal first name for the user. Otherwise, returns the first name for the user. <i>KDE recommends <u>not</u> including Legal Names (Protected Identity Information).</i></p>
<b>familyName</b>	Census   People   Identities   Last Name or Legal Last Name Identity.lastName or Identity.legalLastName	<p>If a legal last name exists for the user AND the setting to <a href="#">Include Legal Names</a> is marked, returns the legal last name for the user. Otherwise, returns the last name for the user. <i>KDE recommends <u>not</u> including Legal Names (Protected Identity Information).</i></p>
middleName	Census   People   Identities   Middle Name or Legal Middle Name Identity.middleName or Identity.legalMiddleName	<p>If a legal middle name exists for the user AND the setting to <a href="#">Include Legal Names</a> is marked, returns the legal middle name for the user. Otherwise, returns the middle name for the user. <i>KDE recommends <u>not</u> including Legal Names (Protected Identity Information).</i></p>

Users Data Element Name in OneRoster Spec ( <b>Green bolded</b> items are required for CUES)	Campus Interface & Database Location	Description & Notes
preferredFirstName	Census   People   Identities   First Name Identity.firstName	If a legal first name exists for the user AND the setting to <a href="#">Include Legal Names</a> is marked, returns the first name for the user. Otherwise, returns as null. <i>KDE recommends <u>not</u> including Legal Names (Protected Identity Information).</i>
preferredFamilyName	Census   People   Identities   Last Name Identity.lastName	If a legal last name exists for the user AND the setting to <a href="#">Include Legal Names</a> is marked, returns the last name for the user. Otherwise, returns as null. <i>KDE recommends <u>not</u> including Legal Names (Protected Identity Information).</i>
preferredMiddleName	Census   People   Identities   Middle Name Identity.middleName	If a legal middle name exists for the user AND the setting to <a href="#">Include Legal Names</a> is marked, returns the middle name for the user. Otherwise, returns as null. <i>KDE recommends <u>not</u> including Legal Names (Protected Identity Information).</i>
pronouns	N/A	N/A
<b>role</b>	<p>Campus supports user roles of teacher, student, administrator, aide, relative, and guardian. <i>CUES will only provision student identities from Campus data.</i></p> <p><b>Students:</b> Student Information   General   Enrollments Enrollment.startDate, Enrollment.endDate</p> <p><b>Teachers/Staff:</b> Census   Staff   District Assignments EmploymentAssignment.startDate, EmploymentAssignment.endDate</p> <p><b>Guardians/Relatives</b> Student Information &gt; General &gt; Enrollments for the related student Enrollment.startDate, Enrollment.endDate</p>	<p>A list of user roles, one per role / organization.</p> <ul style="list-style-type: none"> <li>• beginDate – Start Date of the role (based on Enrollment or District Assignment)</li> <li>• endDate – End Date of the role (based on Enrollment or District Assignment)</li> <li>• roleType – "primary" or "secondary" – one role in the list is chosen as the primary role based on the logic below role – "student", "teacher", "guardian", "districtAdministrator", etc.</li> </ul>

<b>Users Data Element Name in OneRoster Spec</b> (Green bolded items are required for CUES)	<b>Campus Interface &amp; Database Location</b>	<b>Description &amp; Notes</b>
<b>role</b> (cont.)		<ul style="list-style-type: none"> <li>• org – A reference to the organization (i.e. school) in which the user has this role</li> </ul> <p>One role is marked as primary, based on the following criteria:</p> <ul style="list-style-type: none"> <li>• Active roles (end date after current date) are picked before inactive roles (end date before current date)</li> <li>• If the "role" value differs (e.g. "guardian" vs "teacher") the one higher in the following list is picked first:               <ul style="list-style-type: none"> <li>○ District Administrator</li> <li>○ Teacher</li> <li>○ Aide</li> <li>○ Student</li> <li>○ Guardian</li> <li>○ Relative</li> </ul> </li> <li>• If the "role" value is the same (e.g. "student" vs "student"), the one with the highest ID is picked – this is a GUID, so this is essentially random.</li> </ul>
userProfiles	N/A	N/A
primaryOrg	N/A	N/A
<b>Identifier</b>	<p><b>Students:</b>            Census   People   Demographics   Local Student Number or Local Staff Number            Person.studentNumber</p> <p><b>Teachers:</b>            Census   People   Demographics   Local Staff Number            Person.staffNumber</p>	Identification number of the person
email	Census   People   Demographics   Personal Contact Information   Email Contact.email	Email Address <i>CUES will write back email for new students.</i>

Users Data Element Name in OneRoster Spec ( <b>Green bolded</b> items are required for CUES)	Campus Interface & Database Location	Description & Notes
sms	Census   People   Demographics   Personal Contact Information   Cell Phone Contact.cellPhone	Cell Phone Number <i>CUES will pull if provided. CUES usage will depend on whether the student is subjected to an MFA authentication policy.</i>
phone	Census   People   Demographics   Person Contact Information   Other Phone Contact.homePhone	Phone Number
agents	Census   People   Relationships   Portal checkbox RelatedPair.portal	Returns as list of the Guardians and Relatives of the student who have access to the Campus Parent Portal.
<b>grades</b>	Student Information   General   Enrollments   Grade; System Administration   Resources   Grade Level Definitions Enrollment.grade, GradeLevel.stateGrade, GradeLevel.ncesGrade	Returns a list of CEDS Grade Level(s), mapped to the grade level(s) in which the students are enrolled. Only returns for students.
password	N/A	N/A
resources	N/A	N/A

## Enrollments

Only returns for students and teachers. OneRoster and Campus define 'enrollment' differently. In OneRoster, an 'enrollment' indicates membership in a class. In Campus, this data is stored in the Schedule for students and the Staff History tab for Teachers. Follows External LMS Exclude logic.

***CUES will use the students' schedules to determine what teachers can reset student passwords. None of these elements are required to provision the student's user account.***

Enrollment Data Element Name in OneRoster Spec	Campus Interface & Database Location	Description & Notes
SourcedId	Does not display in Campus UI. 's' + Roster.rosterID	For students, returns the letter 's' prepended to the RosterID. e.g. s123453678
	Does not display in Campus UI.	For teachers, returns the letter 't'

Enrollment Data Element Name in OneRoster Spec	Campus Interface & Database Location	Description & Notes
SourcedId (cont.)	't' + SectionStaffHistory.historyID	prepended to the Staff History ID. e.g. t123456
status	<b>Students:</b> All Enrollments for a Section: Scheduling & Courses   Courses   Section Roster All Enrollments for a Student: Student Information   General   Schedule   Walk-in Scheduler   Section   End Date Roster.endDate	For students, if the Roster End Date is null or after the current date, returns 'active'. Otherwise returns 'tobedeleted'.
	<b>Teachers:</b> Scheduling & Courses   Courses   Section Staff History   End Date SectionStaffHistory.endDate	For teachers, if the Staff History End Date is null or after the current date, returns 'active'. Otherwise returns 'tobedeleted'.
dateLastModified	<b>Student:</b> Student Information   General   Schedule   Walk-In Scheduler   select a rosterRoster.modifiedDate or Roster.createdDate	Returns the Modified Date, or the Created Date if null.  Note: Created Date does not display in the Campus UI.
	<b>Teacher:</b> Scheduling & Courses   Courses   Section Staff History   select a record SectionStaffHistory.modifiedDate or SectionStaffHistory.createdDate	
metadata	N/A	N/A
user	Census   People   Demographics   Person GUID Person.personGUID	A reference to the User that this enrollment pertains to. Returns the personGUID of the user.
class	Scheduling & Courses   Courses   Section Information   SectionID Section.sectionID	A reference to the Class (Campus Section) that the user for this enrollment is enrolled in. Returns the sectionID of the section.
school	Does not display in the Campus UI. School.schoolGUID, District.districtGUID	A reference to the School that contains the Class the user is enrolled in. Returns the schoolGUID of the school.
role	N/A	Identifies the type of enrollment record being returned. Returns as 'student' or 'teacher'.



Enrollment Data Element Name in OneRoster Spec	Campus Interface & Database Location	Description & Notes
Primary	<b>Students:</b> N/A	A value does not return for students.
	<b>Teachers:</b> Scheduling & Courses   Courses   Section Staff History   Primary Teacher vs Teacher SectionStaffHistory.staffType	For teachers, returns as TRUE if the teacher is designated as the Primary teacher of the section. Otherwise returns as FALSE.
beginDate	<b>Students:</b> All Enrollments for a Section: Scheduling & Courses   Section Roster   Start Date All Enrollments for a Student: Student Information   General   Schedule   Walk-in Scheduler   Start Date Roster.startDate	For students, returns the Roster Start Date. If a date is not listed, returns as null.
	<b>Teachers:</b> Scheduling & Courses   Courses   Section Staff History   Access Start Date, Start Date SectionStaffHistory.accessStartDate SectionStaffHistory.startDate	For teachers, returns the Access Date from the Staff History record, if entered, or the Start Date of the Staff History record. If a date is not entered, returns as null.
endDate	<b>Students:</b> All Enrollments for a Section: Scheduling & Courses   Section Roster   End Date  All Enrollments for a Student: Student Information   General   Schedule   Walk-in Scheduler   End Date Roster.endDate	For students, returns the Roster End Date.
	<b>Teachers:</b> Scheduling & Courses   Courses   Section Staff History   Access End Date, End Date SectionStaffHistory.accessEndDate SectionStaffHistory.endDate	For teachers, returns the Access End Date from the Staff History record, if entered, or the End Date of the Staff History record.
	If an End Date is entered in Campus, a value of endDate + one day returns. One day is added because dates are inclusive in Campus (access ends at the <i>end</i> of the endDate) whereas in OneRoster, dates are exclusive (access ends at the <i>beginning</i> of the endDate).	