

OneRoster 1.2 Data Models Used for CUES

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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 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 connection. *KDE recommends editing the Connection Configure to uncheck the Include Legal Name option.*

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 **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:*
 - *They must have an active Infinite Campus user account.*
 - *They must have an active enrollment in the active year without External LMS Exclude selected.*
- *The CUES process will*
 - *create student's email address and write it back to Infinite Campus.*
 - *convert student's local Infinite Campus authentication account to single sign-on.*
- *Multi-factor Authentication (MFA) may require Contact Cell Phone for students as a form of initial account claim or as a form of MFA.*

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

Users must have an enabled user account to return.

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 (EmploymentAssignment.teacher)

A user's currently active role returns as 'Primary'.

Users Data Element Name in OneRoster Spec <small>(Items required to create a student identity are in bold)</small>	Campus Interface & Database Location	Description & Notes
sourcedId	Census People Demographics Person GUID Person.personGUID	Returns the PersonGUID of the person this user pertains to. e.g. 5356590D-A812-4E74-AF6F- 4C96C00264CC
status	Returns an indication of whether the user is active. Student: Student Information General Enrollments End Date Enrollment.endDate Teacher/Aide/District Administrator: 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. Students: Enrollment.modifiedDate, Identity.modifiedDate, UserAccount.modifiedDate, Contact.modifiedDate Non-Students: 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	ic.legacySourcedId Census People Identities PersonID Person.personID	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
userMasterIdentifier	Students: Census People Demographics Student State ID Person.stateID	Returns the student's State ID Returns the teacher's Staff State ID <i>which is not used in Kentucky.</i>

Users Data Element Name in OneRoster Spec <small>(Items required to create a student identity are in bold)</small>	Campus Interface & Database Location	Description & Notes
	Teachers: Census People Demographics Staff State ID Person.staffStateID	
username	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"> • identifier – The username for the user account • type – Derived based on the homepage of the user account: <ul style="list-style-type: none"> ○ infiniteCampusStudent – Campus Student Portal ○ infiniteCampusTeacher – Campus Instruction 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.
enabledUser	User Management User Accounts User Account Information Disabled/Expires Date UserAccount.disable, UserAccount.expiresDate	Returns true if the user has any active user accounts, otherwise returns false. A user account is considered active if it is not disabled and it's expiration date has not passed.
givenName	Census People Identities First Name or Legal First Name Identity.firstName or Identity.legalFirstName	If a legal first name exists for the user AND the setting to Include Legal Names 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>
familyName	Census People Identities Last Name or Legal Last Name Identity.lastName or Identity.legalLastName	If a legal last name exists for the user AND the setting to Include Legal Names 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>
middleName	Census People Identities Middle Name or Legal Middle Name Identity.middleName or Identity.legalMiddleName	If a legal middle name exists for the user AND the setting to Include Legal Names 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>

Users Data Element Name in OneRoster Spec <small>(Items required to create a student identity are in bold)</small>	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 Include Legal Names 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 Include Legal Names 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 Include Legal Names 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
role	<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>Students: Student Information General Enrollments Enrollment.startDate, Enrollment.endDate</p> <p>Teachers/Staff: Census Staff District Assignments EmploymentAssignment.startDate, EmploymentAssignment.endDate</p>	<p>A list of user roles, one per role / organization.</p> <ul style="list-style-type: none"> • beginDate – Start Date of the role (based on Enrollment or District Assignment) • endDate – End Date of the role (based on Enrollment or District Assignment) • 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. • org – A reference to the organization (i.e. school) in which the user has this role <p>One role is marked as primary, based on the following criteria:</p> <ul style="list-style-type: none"> • Active roles (end date after current date) are picked before inactive roles (end date before current date) • 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"> ○ District Administrator ○ Teacher ○ Aide ○ Student ○ Guardian

Users Data Element Name in OneRoster Spec (Items required to create a student identity are in bold)	Campus Interface & Database Location	Description & Notes
		<ul style="list-style-type: none"> ○ Relative ● 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.
userProfiles	N/A	N/A
primaryOrg	N/A	N/A
identifier	Students: Census People Demographics Local Student Number or Local Staff Number Person.studentNumber Teachers: Census People Demographics Local Staff Number Person.staffNumber	Identification number of the person
email	Census People Demographics Personal Contact Information Email Contact.email	Email Address <i>CUES will write back email for students.</i>
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.
grades	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' schedule to determine what teachers can reset student passwords.

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. 't' + SectionStaffHistory.historyID	For teachers, returns the letter 't' prepended to the Staff History ID.e.g. t123456
status	Students: 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'.
	Teachers: 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	Student: Student Information General Schedule Walk-In Scheduler select a roster Roster.modifiedDate or Roster.createdDate	Returns the Modified Date, or the Created Date if null. Note: Created Date does not display in the Campus UI.
	Teacher: 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.	A reference to the School that contains the

Enrollment Data Element Name in OneRoster Spec	Campus Interface & Database Location	Description & Notes
	School.schoolGUID, District.districtGUID	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'.
primary	Students: N/A	A value does not return for students.
	Teachers: 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	Students: 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.
	Teachers: 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	Students: 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.
	Teachers: 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).		