



ILLUMINATE

Colleague Ethos Access and API Requirements for Coursedog Integration



Introduction

This document describes the technical requirements for N2N's integration of the Coursedog Integration projects with Ellucian Colleague.

High level Technical Approach

N2N uses Ellucian's Ethos APIs in order to access (GET, POST, & PUT) data required for the Coursedog Integration projects. Access is granted to N2N via an authorization key.

Access Requirements

- N2N uses the host URL <https://integrate.elluciancloud.com> and will need:
 - Test environment Authorization Key
 - Production environment Authorization Key
- Ensure the **Ethos APIs are enabled**
 - N2N Network IP Range to Whitelist:
 - QA: 193.122.133.255 (193.122.133.255/16) and 23.20.165.255 (23.20.165.255/24)
 - PROD : 129.213.178.3 (129.213.178.3/16) and 54.204.165.208 (54.204.165.208/24)

In order to do this, access Ethos Integration and View your applications. Then choose to edit the application and go to the API keys tab. From there, choose to edit the API key and select "Set API key to have IP address restrictions" and enter the above IP addresses.

Screenshot

Edit API Key

Set API key to have no IP address restrictions

Set API key to have IP address restrictions

Source IP Address (use IPv4 or IPv6 CIDR notation, separate multiple values by commas):

Source IP Address *
129.213.17.154/24

Notes

API Key Notes
External API Key
129.213.17.154/24

Cancel

Save

- N2N also needs access to the EAEE (Ethos API Extensions) form in Colleague (or be on a Zoom with someone who does have access) to set up an extension to sections to include printed comments

Coursedog - Required Ethos APIs(We may add more going forward)

API Name	Method	Description
sites	GET	Sites defines physical locations utilized by organizations such as an institution, college, or department. Each site is specified along with the organization associated with it. For higher education, sites often represent campuses.
rooms	GET	A room is a portion of space within a building or other structure, separated by walls or partitions from other parts. In HEDM, it primarily refers to classrooms of any kind, as well as

		offices at an academic institution. Each room exists within a building, and has at least one layout type (classroom, theater, etc.), which defines its maximum occupancy.
buildings	GET	Buildings define the physical structures that contain rooms. These are used in scheduling course sections. The physical location (site) is also specified for each building.
educational-institution-units	GET	This model defines the structure for exchanging information about operational units within an educational institution.
instructional-methods	GET	An instructional method contains details about the method or format in which a course is taught.
persons	GET	Persons is used to structure the basic demographic information of the people associated with higher education. People fulfill different and multiple roles within higher education. This entity only contains properties that are common to all roles. Properties associated with the roles people fill are contained in role-specific entities (students, constituents).
course-statuses	GET	The course statuses entity contains the user defined list of statuses for courses.
courses	GET	<p>A course is a unit of teaching on an individual subject. A grade and academic credit can be awarded on successful completion of the course.</p> <p>Each course can be offered at different levels of complexity, from introductory to advanced, or in-depth, study of a specialized topic, and at various academic levels.</p> <p>Multiple instructional methods may be used in teaching each course, and different grade schemes and credit specifications can apply to it.</p> <p>In the case of a multidisciplinary course, teaching responsibilities may be shared between two or more departments (organizations) within the academic institution.</p>
subjects	GET	Subjects define a topic or category used to group together a branch of knowledge which can be used in scheduling courses.

credit-categories	GET	Credit categories include academic credits that are grouped by purpose and what they count towards. Typical groupings include continuing education, institution (college credit), or transfer.
course-title-types	GET	The Course Title Types entity specifies a valid list of user defined course title types (e.g. short title, long title).
academic-periods	GET	Defines the time periods used by institutions of higher education. An institution can define the start and end dates for academic years, terms, and sub-terms. An academic term can also specify the academic year in which it occurs and the academic term that immediately precedes it. Similarly, an academic sub-term can specify the academic term in which it occurs and the academic sub-term that immediately precedes it.
sections	GET POST PUT	<p>A section is an instance of a course that is used to group students interested in taking the course. When students are enrolled in a course, they are actually enrolled in one of the sections of that course. All sections of a course share the same content associated with the course. In addition to the attributes of the course, each section may:</p> <ul style="list-style-type: none"> • exist within a specific academic period. • utilize a certain instructional platform. • be offered at a distinct site (campus) of the institution (for face-to-face instructional events)
section-crosslists	GET POST PUT DELETE	Section crosslists represent lists of sections of different courses, usually in different departments/subject areas, that meet as a single class. Typically cross-listed sections meet together, cover the same course material, and have a single instructor (or set of instructors.) The entity requires that at least one section be specified. Each section in the cross-list can be optionally specified as "Primary" or "Secondary". The entity can also optionally specify how wait-lists are applied to the cross-listed sections along with the maximum enrollment and the maximum wait-list length across all cross-listed sections.

section-instructors	GET POST PUT DELETE	<p>The Section Instructors entity provides information about assignments of individuals as instructors to sections.</p> <p>This entity includes references to:</p> <ul style="list-style-type: none"> • The person assigned as an instructor to the section. • The section to which the instructor is assigned. • The instructional events associated with the assignment of the instructor to the section, if applicable. • The method, style, or format of instruction associated with the instructor's involvement with the section (for example, 'Lecture', 'Lab'). • An indication whether the instructor is identified as the primary instructor for the section. • The amount of work attributed to the instructor for the assignment. • The percentage of the total responsibility for managing the instructional method's activities attributed to the instructor for the assignment. • The first and the last dates associated with the instructor's assignment.
instructional-events	GET POST PUT DELETE	<p>The Instructional Events entity contains a set of meetings or gatherings of students and teachers such as lectures, discussions, or lab experiments that are scheduled in a specific learning environment suitable for the type of event. An instructional event is associated with a course section and an appropriate instructional method. Instructional events can be recurrent and are scheduled to occur in a specific location.</p>

User Setup

The user that will be used by the application to connect to Colleague must be granted the following permissions on MRPR:

- CREATE.UPDATE.COURSE
- CREATE.UPDATE.SECTION
- UPDATE.SECTION.INSTRUCTORS
- UPDATE.ORGANIZATION
- UPDATE.ROOM.BOOKING
- VIEW.ANY.ORGANIZATION
- VIEW.ANY.PERSON
- VIEW.INSTRUCTORS
- VIEW.INSTITUTION.JOB.SUPERVISORS
- VIEW.PERSON.EMPL.PROFICIENCIES
- VIEW.PERSON.HOLD
- VIEW.REGISTRATIONS
- VIEW.SECTION.INSTRUCTORS
- VIEW.STUDENT.ACADEMIC.PERIOD.PROFILE
- VIEW.STUDENT.SECTION.WAITLIST