Ethos Proof of Concept

Kent State University

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Goals

• Install Ethos in a development environment and understand steps needed for production implementation.
• Complete and document PoC tests.
• Prove the viability of using Ethos in our overall environment
• Gauge the difficulty of building the PoC tests.
Project Phases

• Phase 1: Setup Ethos
• Phase 2: Consume Data Changes
• Phase 3: Integrate Ethos with Practical Application - OIM
Phase 1: Setup Ethos

Banner
Ethos Integration communicates with Banner using the Student/Integration Web API App. Banner communicates with Ethos Integration using the Banner Event Publisher (BEP) along with the Ellucian Messaging Adapter and the Ellucian Messaging Service.
Phase 1: Setup Ethos

The initial setup required these components:

- BEP, EMS, EMA
- Additional Database installations
- Ellucian Ethos Integration Server Software Installation Course is Now Available on the ODSL
- API Management Center - tool to setup GORICCR. Ellucian recommends functional users will need to be involved in setup.
- Ethos Integration Hub – location to setup applications and subscriptions
- Setup sample app in Ethos tenant – need credentials and define subscription based on predefined models
- Postman – prove connectivity, view and consume data
Access to Ethos Integration Hub
Ethos Integration Hub
Ethos Integration Hub - Applications
Ethos Integration Hub - Application with subscription to events
Phase 2: Course Catalog Website

Course Catalog Demo

From Ellucian’s GitHub page

https://github.com/ellucianEthos/

Source: https://github.com/ellucianEthos/course-catalog-demo
Phase 2: Course Catalog Website

• Useful to explore other usages of the Ethos API

• Lead to uncovering services that weren't fully configured in Banner

• Authorization Token valid for limited time (~ 5minutes)
Phase 3: Implement Identity Management

GOAL
To update our Identity Management system with additions and changes to person records. Close to real-time.

Current State
A Batch process runs every four hours to pull new users. Identity Management uses this data to update OIM. (Oracle Identity Management)
Phase 3: Our process

• Determined what data Identity Management needed for their process of on-boarding.

• Reviewed the Ellucian catalog to determine which data models contained the data needed.
Phase 3: Access to Ethos Data Models
### Phase 3: Examples of Ethos Data Models

<table>
<thead>
<tr>
<th>Domain</th>
<th>Functional Area</th>
<th>Model Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>Curriculum Management - Academic Programs</td>
<td>academic-catalogs</td>
</tr>
<tr>
<td>Student</td>
<td>Curriculum Management - Majors and Minors</td>
<td>academic-credentials</td>
</tr>
<tr>
<td>Student</td>
<td>Curriculum Management - Academic Programs</td>
<td>academic-disciplines</td>
</tr>
<tr>
<td>Student</td>
<td>Curriculum Management - Honors</td>
<td>academic-honors</td>
</tr>
<tr>
<td>Student</td>
<td>Student Profile - Academic Levels</td>
<td>academic-levels</td>
</tr>
<tr>
<td>Student</td>
<td>Student Profile - Profile</td>
<td>academic-period-enrollment-statuses</td>
</tr>
<tr>
<td>Student</td>
<td>Curriculum Management - Academic periods</td>
<td>academic-periods</td>
</tr>
<tr>
<td>Student</td>
<td>Curriculum Management - Academic Programs</td>
<td>academic-programs</td>
</tr>
<tr>
<td>Student</td>
<td>Student Profile - Academic Standing</td>
<td>academic-standings</td>
</tr>
<tr>
<td>Finance</td>
<td>General Ledger - Available Balance/NSF Checking</td>
<td>account-funds-available_transactions</td>
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</tr>
<tr>
<td>Finance</td>
<td>General Ledger - Chart of Accounts</td>
<td>accounting-string-component-values</td>
</tr>
<tr>
<td>Student</td>
<td>Account Receivables - Charges</td>
<td>accounting-codes</td>
</tr>
<tr>
<td>Finance</td>
<td>General Ledger - GL Account Structure</td>
<td>accounting-string-components</td>
</tr>
</tbody>
</table>

Examples of Available Models – complete list available in Ellucian Resources, Ethos Data Model
Phase 3: Our process cont.

- Created an ‘application’ in Ethos
- Added credentials
- Added Subscriptions to the API’s that we discovered were needed
- Gave the API key to Identity Management to consume the changes
Phase 3: Results

- If a change is made in the persons record – gobtpac, spaiden etc, event triggers and sends the data to Ethos.
- Identity Management application requests changes periodically (every few minutes)
- When a change occurs, Identity management application consumes the data & updates the system.

<table>
<thead>
<tr>
<th>Subscriber</th>
<th>Waiting</th>
<th>Retrieved</th>
<th>Confirmed</th>
</tr>
</thead>
<tbody>
<tr>
<td>banner_student_api</td>
<td>168</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>MB_TEST</td>
<td>42</td>
<td>12</td>
<td>420</td>
</tr>
<tr>
<td>OIM_Persons_Add</td>
<td>69</td>
<td>1</td>
<td>73</td>
</tr>
</tbody>
</table>
Future Goals

• Work on Ethos Security
• Replace existing custom integrations
• Utilize Ethos with Partners
• Our 5 year plan is to use Ethos for all identity creations and modifications for the full user lifecycle.
Information presented here is based on Ellucian’s knowledge of partner solution availability at the time of publication and is subject to change. Solutions may be in a beta, ready for testing, or GA state and may require implementation services. Customers should contact partners or Ellucian for Ellucian-branded solutions for additional details before making any purchase decision. Customers should contact partners for information on specific applications that are not listed. Integration work may be in progress although timeframes for availability may not have been shared.
Ethos PoC Team

DBAs: Melissa Berry, Danielle Tricker
Developers: Tim Bowser, Matt Bungard, Cindy Roberts, Sherri Stephens
Identity Management: Ryan Miles, Matt Pahls
Project Management: Barb McClintick, Dawn Sharnsky
Leadership: Andrea Nunley
Business Systems Analyst: Chrissy DiSpina
Thank You!