Common API Platform: Vision, Objectives, Strategy

**Project Vision**
Reduce integration cost, time, and effort by simplifying the way schools and central units exchange data between our systems.

**Project Objectives**
1. Simplify our data exchange architecture
2. Reduce cost of exchanging data between our systems
3. Improve consistency of projects delivering data exchange solutions

**Key Performance Indicators**
1. Common API platform is implemented
2. Number of APIs documented and registered
3. Percentage of new projects leveraging API platform for data exchange
4. Number of legacy point-to-point integrations retired
5. Staff in central departments and each school trained on developing APIs using the common platform

**Implementation Strategy**
1. Implement Common API Platform
2. Build, Document & Catalog APIs
   - Create prioritized backlog of APIs to build and/or register
   - Develop new APIs per prioritized backlog
   - Extend the Person Data Service (new attributes)
   - Engage with Contingent Workforce, Broadcast Communications, Buy-to-Pay, and others
   - Replace existing point-to-point interfaces
3. Engage API Community
   - Train cross-department staff on API Development
   - Form an API Community of Practice

SO1: Simplify Data Exchange Architecture

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<tr>
<th>PHASE</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
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<tr>
<td>Strategy</td>
<td>Implement Common API Platform</td>
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<td>Microsoft Platform Implementation</td>
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<td>API Development</td>
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<td>Data Access Permissions for APIS</td>
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SO2: Reduce Cost of Exchanging Data

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<th>STRATEGY</th>
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<tr>
<td>Build, Document &amp; Catalog APIs</td>
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SO3: Improve Consistency of Projects Delivering Data Exchange Solutions

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<th>STRATEGY</th>
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Common API Platform

Program Vision: Reduce integration cost, time, and effort by simplifying the way schools and central units exchange data between systems.
Program Director: Mitchel Rogers, Program Manager: Erin Gregory

Strategic Objectives Health

1. SO1 Simplify Data Exchange Architecture
2. SO2 Reduce cost of exchanging data between our systems
3. SO3 Improve the consistency of projects delivering data exchange solutions

Program Highlights
- Q2 is marked most notably by the expansion of our team. We onboarded the Mulesoft Application Architect and a new Project Coordinator to support project operations. The team is on track to deliver a rearchitected version of the Person Data Service, and the Course API MVP. Our Mulesoft Platform Roadmap is in place, and will be rolled out by the end of the quarter. We have created high-level training plans to support the Mulesoft Developer and Consumer communities, and have implemented the standard API documentation model in CoLibra.

Executive Attention
- The Cloud Migration, MIR and other operational work is impacting the resources allocated to the project. Managing across operational capacity challenges continues to be a risk as we cannot make guarantees or commitments about individual allocations. We have multiple resource single-points-of-failure, and should any of them get significantly pulled away from the project our ability to deliver on project milestones will be in jeopardy.

Features & Risks

1. Issue Platform Operational Support
   - We do not have a dedicated resource to support the Mulesoft and CoLibra platform associated infrastructure. A crucial SLA to have system-critical APIs running on the Mulesoft platform is to have 24x7 support with committed operational maintenance and trouble-shooting expertise.
   - Proposed Mitigation 1) The Mulesoft Application Architect will work closely with the ITS team to make sure we have someone on the project who can serve as backup, if necessary.
   - 2) Continue working with OMS-Dedicated ITS DevOps resources as needed, particularly once we have customers indicating a specific need for increased SLAs.

2. Issue Cross-Org Prioritization
   - With the enterprise focus on Cloud Migration, our ability to collaborate with and leverage resources from outside the project team is hindered. Our model relies on "external" contribution to API development and documentation, and we are experiencing difficulty in getting attention to this effort.
   - Proposed Mitigation 1) Continue working with stakeholders to reinforce the importance of these efforts. As necessary, communicate with Steering/Executive committees about either changes in timeline, or a narrowed scope.

3. Issue MIR Extension - Resource Impact
   - The extension of the MIR project through the end of the calendar year has impacted the ability of resources on that project to shift over to either contributing directly to CAPP, or to filling operational roles that would free up other resources to dedicate more time to CAPP. In particular our CoLibra Product Owner, and API Developer are seeing reduced capacity for CAPP.
   - Proposed Mitigation 1) Work with the team to focus on top priorities and ensure the most important work can be accomplished. As necessary, evaluate extending timelines or adjusting scope for those workstreams most impacted.

Timeline

- SO1 Build API Platform
- SO2 Create API Building
- SO3 Register and Document Existing APIs
- SO4 Develop New APIs (Project Deliveries)
- SO5 Create Data Feed/Integration Decommissioning Building
- SO6 Decommission Central & School Point-to-Point Feeds
- SO7 Launch Person Data Service
- SO9 Provide Training to Staff
- SO10 Establish & Operate a Community of Practice

Program Metrics

- # of APIs: 4
  - Definition of an API: Developed in Mulesoft
  - Deployed to Production
  - Documented to standards in CoLibra
  - Individual registered API with discrete access provisioning

- # of Consuming Applications: 6
  - Definition of Consuming Application
    - Approved to consume Mulesoft APIs
    - Individual application, not including downstream distribution

Backlog Status

- Person API
- Course API
- Enrollment API
- Chart of Accounts
- Groups API

Cost Breakdowns

- Planned YTD
- YTD Actual

- Capital Resources: $3,376,000
- Licenses: $196,000
- Hosting: $40,000
- Consulting/Misc: $175,000

- % of Time

- Effort: 0%
- Time: 0%
- Budget: 0%

- % of Budget

- Time: 0%
- Budget: 0%
- Effort: 0%