

EIS 2014-15 Goals

Text

Enabling APIs

- Public facing website
- Buildout of API Central portal with complete documentation, tutorials, and application gallery
- Developer forum
- Data@Cal event with consumer-side and provider-side data integration sprints

Solidifying the Platform

- Implement ITSM plan
- PL3 security certification
- New DevOps practices for continuous improvement of the environment, with a multiple release targeting high reliability infrastructure, and dependency monitoring for ops with a public facing status page
- Implement 11 core student business object APIs

Enabling Agile Development

- New DevOps infrastructure, including Continuous Integration, Docker, and SaltStack, with local and AWS release targets
- Consistent Dev practices, standardizing on Git, and becoming consistent with unit and integration testing, documentation practices, and Swagger annotations for all APIs we build.
- Migrate API, ESB, JMS services into new infrastructure



Enterprise Integration at UC Berkeley

The mission of Enterprise Integration Services is to help the campus achieve its objectives through the use of current service-oriented and internet technologies. We provide effective services enabling the use of these technologies to rethink historical ways of doing business and to serve campus users in efficient, secure, and reliable ways.

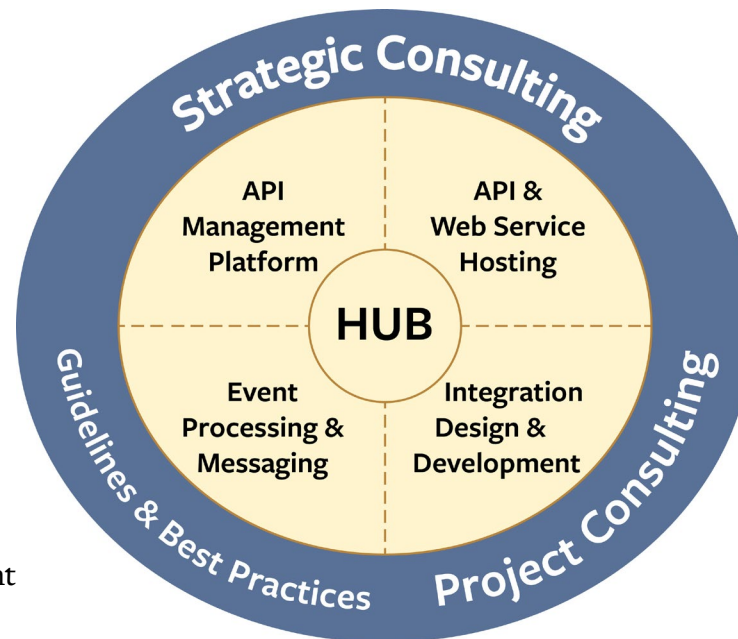
Our services break down into two groups:

Integration Competency Center

- Integration Strategic Consulting
 - API Strategy Consulting*
 - EA Advisory Body Consulting*
 - Developer Engagement*
- Integration Project Consulting
 - OCIO Sponsored Engagements*
- Guidelines & Best Practices
 - Enterprise Integration Guidelines*
 - API Active Documentation*
 - Integration Best Practices*

Integration Hub Services

- API Management and Support
- Integration Design and Development
- API and Web Service Hosting
- Event Processing and Messaging



Together these service groups form a model that seeks to fill all the needs of the campus for building integrated systems using APIs and messaging as core technologies. For data stewards, APIs are re-usable, secure and more manageable than direct database access. Develop an API once, and all future data consumers can be directed to use it, with EIS supporting the developers. For data consumers APIs are re-usable, modern and consistent. If you have multiple applications or hosts that need access to the data, you don't need to get a new database connection authorized for each one. And using EIS services, you have a single API hub with consistent policies, a single point of contact, and a consistent model for documentation.

Questions about EIS

What does EIS as a team do?

As a free service to the campus IT community, we operate centralized API management services, centralized API endpoints, a centralized Java Enterprise Service Bus and development support tools such as source code repositories and trouble ticketing systems. On a consulting basis, we also provide expertise in service integration, enterprise architecture and software best practices.

Who is using EIS services?

More than 30 distinct systems use our API services, such as CalCentral, CalAccess, bConnected and Bearfacts. Our APIs provide a common interface to data from SAIT, ETS, Enterprise Data, Administrative IT and IDM, as well as external services such as Google, Box, Twitter, Youtube and NextBus

What APIs does EIS offer today?

We offer APIs that cover:

- Course Catalog and Scheduling
- Student profiles, class schedules, exams and registration status
- Campus Organizational Units and Departments
- Chart of Accounts code validation
- Calnet directory lookup
- CoolClimate: calculate your carbon footprint

See <http://developer.berkeley.edu> for full details.