UCLA Enterprise Service Bus

About the UCLA Enterprise Integration Program

The UCLA Enterprise Integration Program provides services and leadership in Enterprise Integration solutions including ESB and API Management.

What is an Enterprise Service Bus (ESB)?

"The UCLA ESB provides the plumbing to manage information flow among systems in a secure, scalable, and cost effective manner. The ESB enables real time data exchange."

- A Brief Introduction to ESB (Power Point Presentation)
- Enterprise Service Bus - an Integration Platform for UCLA (YouTube video of Bruin Tech-a-thon Presentation)
- ESB Frequently Asked Questions (FAQ)

What is API Management?

API management is the process of designing, publishing, documenting and analyzing APIs in a secure environment. Through an API management solution, an organization can guarantee that both the public and internal APIs they create are consumable and secure.

- API Management / Apigee Guide (FAQ)
- Pilot API Developer Portal: https://developer.api.ucla.edu
- UCLA Apigee Edge: https://ucla.apigee.com/edge

Planned Maintenance Windows

ESB platform planned maintenance can be scheduled four times a year and will normally take place within a 4-6 hour window on a Friday or Saturday during the third week of the current academic quarter. As this changes from year to year a schedule will be posted here.

There is a degree of redundancy built into the platform, but there may be intermittent outages during the maintenance window.

ROADMAP

The following are the technology implementation goals and road map for the ESB program.

Short Term

- Provide integration platform support for the Ascend Financial System replacement project.
- Migrate all current API gateway services to Google Apigee.
- Develop a phase 1 API developer portal integrated with Apigee.

Medium Term

- Develop a migration path for moving current ESB applications to a Dockerized, cloud based, solution hosted on AWS.
- Migrate ESB applications to AWS.
- Develop and advocate for the creation of a campus API Program.

Long Term

- Enable workflows and templates for technologies that can streamline the development and deployment of applications and services in support of campus data integration.
- Actualize a campus wide API Program that will enable a digital ecosystem to deliver the value of UCLA data to customers.

Documents

- ESB Platform Technical Architecture 6-5-2013
- Original ESB Project Plan - 2013
Related Info

List any project-related resources such as referenced web articles, online forums, and related project sites.

Enterprise Integration Patterns

SSL Best Practices (courtesy Majid Toossi)

ESB Application Development Resources

UC ESB WIKI

ESB FAQ

Team

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