

OneStart/EDEN

A Description of IU's Transaction Processing/Recordkeeping Environment

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Introduction – Portals in Higher Education

*“A campus portal may be defined as **a single integrated point for useful and comprehensive access to information, people, and processes**. While portals have a rapidly evolving set of features and characteristics, they can be described as both **personalized and customized user interfaces providing users with access to both internal and external information**. Portals can be used for a variety of activities which generally fit into three main categories – **gateways to information, points of access for constituent groups, and community/learning hubs**.”*

*David L. Eisler, “A Portal’s Progress”
Syllabus Magazine, September 2000*



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Introduction – Portals and Recordkeeping

How can archivists and records managers, leverage portals in our efforts to capture, maintain, and preserve electronic records?

At Indiana University . . .

OneStart

Campus portal

EDEN

(Enterprise Development ENvironment)

Shared infrastructure



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Background – IU's IT Strategic Plan

- Five-year Information Technology (IT) Strategic Plan released 1998
- Replacement or re-engineering of several enterprise wide applications
 - PeopleSoft's HRMS and SIS
- Excellent opportunity to integrate all of the enterprise applications at IU through a transaction-processing environment
 - Would provide access to these applications through a coordinated, unified front end and an infrastructure made up of components that would be shared among applications



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Background – Requirements Gathering

- JAD Session, March 2000
- Meeting participants
 - IT developers and managers
 - Functional areas (HR, Timekeeping, Student Information, Financial Management, Accounts Payable, Purchasing, Electronic Research Administration, Indiana University Information Environment)
- Additional meetings held during the summer



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Background – Portal Vision

- Unified front end to IU services
- Single sign-on and authentication
- 24x7 availability
- Role-based customization
- Usability-tested personalization features
- Application integration
- Adaptive user interface
- Completely user-centered environment.
- Component-based design (CBD)/Web services methodology and standards approach allowing for the development of the shared infrastructure.



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University Archives Involvement

- Not working directly with the PeopleSoft implementation



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University Archives Involvement

- Not working directly with the PeopleSoft implementation
- Active participant on OneStart/EDEN core development team
 - Document creation and workflow requirements gathering



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 - Development methodology



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- Not working directly with the PeopleSoft implementation
- Active participant on OneStart/EDEN core development team
 - Document creation and workflow requirements gathering
 - Development methodology
- Fall 2000 to Spring 2001– portal development



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University Archives Involvement

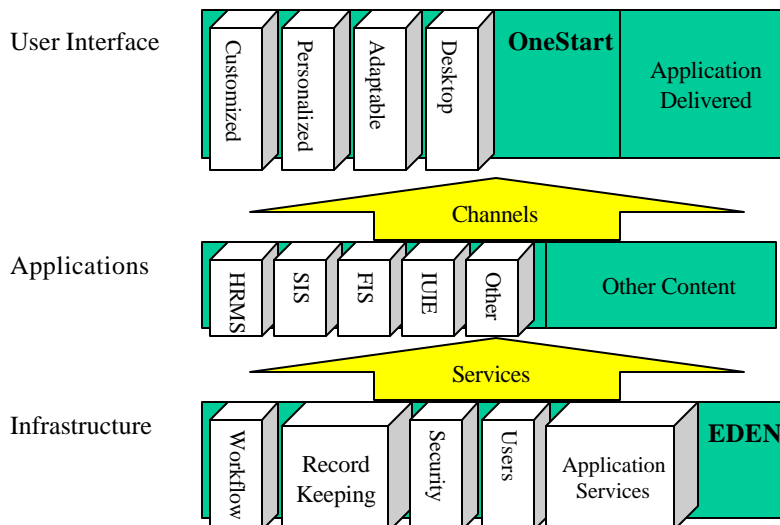
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- Active participant on OneStart/EDEN core development team
 - Document creation and workflow requirements gathering
 - Development methodology
- Fall 2000 to Spring 2001– portal development
- Spring/Summer 2001 – additional workflow requirements gathering



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OneStart & EDEN Component-Based Development



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Conceptual Design – Advantages of CBD

- Creates a repository of reusable business functions that also allows for the replacement of specific functions
- Aids rapid application development by assembling existing components and services.
- Can improve the agility, flexibility, and scalability of an application.
- As long as components agree upon the protocol to be used, an application does not have to reach into another application's database for information.



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Conceptual Design – Workflow

Workflow is *"the automation of a business process, in whole or part, during which documents, information or tasks are passed from one participant [human or machine] to another for action, according to a set of procedural rules."*

<http://www.e-workflow.org/>

"Starting from creation and ingestion, we should integrate the workflow process with the preservation process: appraisal, verification, maintenance and, eventually, retirement."

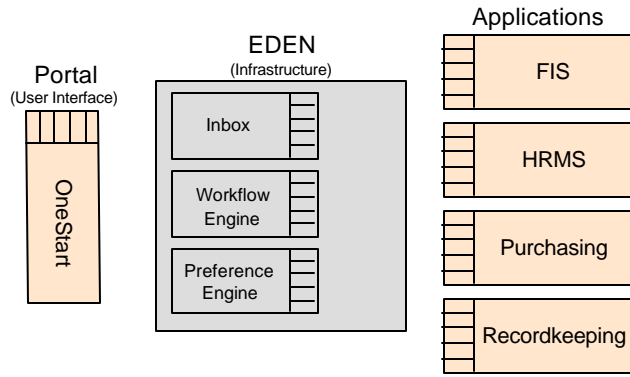
Su-Shing Chen "The Paradox of Digital Preservation"
Computer (IEEE Computer Society), March 2001



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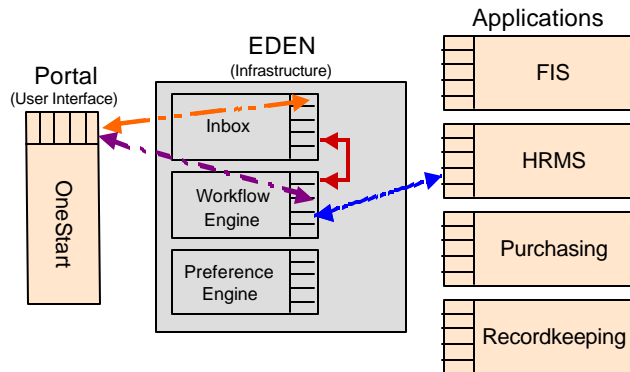
Conceptual Design – EDEN Workflow Engine



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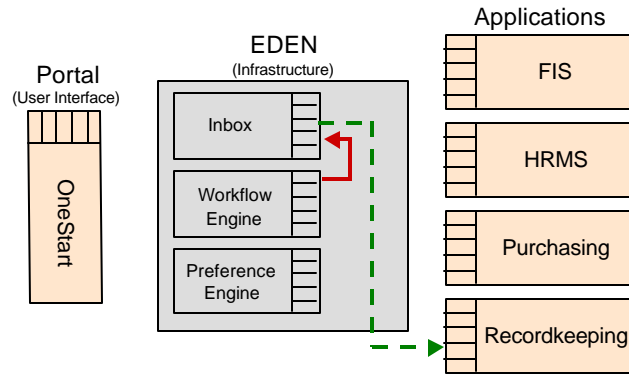
Conceptual Design – Routing an E-Doc



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Conceptual Design – Workflow and Electronic Recordkeeping



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IU Electronic Recordkeeping Project

<http://www.indiana.edu/~libarch/ER>

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Portal

<http://onestart.iu.edu>

Project Website

<http://onestart.iu.edu/project>



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