University of Hawaii
And The Banner Implementation
Brown Bag: December 12, 2002

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And The Banner Implementation

Presentation Roadmap

• Banner Milestones, past and present
• High Level Infrastructure Overview
  – Hardware
  – Network
  – Software
• Questions!??
Banner Milestones
From Then to Now

- Dec ’01, Banner Selected for the UH System
- Feb ’02, Loaner Hardware arrives from Sun and Banner installations begin
- Apr ’02, Design for Banner Hardware Configuration completed
- Jun-Aug ’02, Banner Implemented for CCs
Banner Implementation
Hardware Architecture

- High performance
- Scalable
- Fault Tolerant
- Secure
Publicly-Accessible Servers

- Campus/Internet
- Packet Filtering
- HA Firewall
- 100BaseTX
- Public production
  - frmNN servers
  - rptNN servers
  - ssahNN servers
- Direct Server Return
- HA Load Balancer
- Return Packet Filtering
Banner Implementation
Network Configuration

- Performance
- Fault tolerance
Banner Implementation
Oahu Connectivity

Legend:
- OC3 Packet over SONET (POS)
- Gigabit Ethernet
- Fast Ethernet

Nodes:
- Kapiolani CC
- Waicwrd CC
- Leeward CC
- Leeward CC-Waianae
- Honolulu CC
- Kapiolani CC
- UH-Manoa
Banner Implementation
Inter-Island Connectivity

Legend:
- **via HITS (OC-3)**
- **via I-Net Fiber (OC-3 and Gigabit Ethernet)**
Banner Milestones
From Then to Now

November 2002
• 12, Web for Students, Live for CC’s
• 14, Web for Admissions, Live for CC’s
• 25, West Oahu Registration, Live
• 27, MIF Test Environment
Banner Implementation
Services Configuration

- Banner Functions: General Student and Financial Aid – frmNN
- Web For Students/Faculty/Admissions – ssaNN (self service applications)
- Discoverer Report Application, Viewer and Plus – rptNN
Banner - Application

- Internet native Banner using Oracle’s Form Server
- All functionality for student and financial aid processing only requires an Internet connection and a browser.
Student Financial Aid

- Students can now login and check the status
  - Loans
  - Grants
  - FinAid history
  - Check disbursements
Web for Students

- Register
- Average time two to three minutes
- Add/drop classes
- Check their records
- Unofficial transcript
- Update their personal information
Web for Admissions

- Students can apply for different programs
- Across campus
- Check catalog
- System very user friendly and simple
Web for Faculty

- View student class list in real time.
- Access information about their students.
- View student transcripts for students registered in their course.
- Enter grades.
Registration

- Using Oracle 9iAS Portal for development
- Fast delivery
- Students can query in real time the status/availability of classes
Report Services

Campus/Internet

Packet Filtering

HA Firewall

100BaseTX

Public production

Packet Filtering

Private interconnect

Gigabit Ethernet

Private production

Packet Filtering

Gigabit Ethernet

Production database

Test, dev, & failover database

Datamart

High-end Storage System

ShadowImaging

100BaseTX

Direct Server Return

HA Load Balancer

Network connections:
- 100BaseTX
- Gigabit Ethernet
- Fibre Channel

ServerIronXL

FDX

Link/Act

Com3

SSSNN servers

FmNN servers

100BaseTX

Report Services
Discoverer Viewer

Reporting for Banner

- Discoverer Viewer
- Discoverer Plus
- Oracle Report Server
Banner Milestones
From Now Through Spring

December
• 06, MIF Datamart Installed
• 09, Datamart Student, Staff Trained
• 16, Fin Aid/FMIS Interface, in Production

January 2003
• 03, Fin Aid MIF Test Environment
• 13, Workflow Installed, Staff Trained
Banner Milestones
From Now Through Spring

February 2003
- 07, Datamart FinAid, Staff Trained
- 21, FinAid MIF Acceptance Testing Done

March 2003
- 21, Banner MIF Conversion
- 31, Banner MIF, Live
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Questions!?