



Under the Desert Sky
APRIL 18 - 21



Mike Franz, Creighton University

GOING ROGUE: CHANGING CARD PRODUCTION SYSTEMS



About Creighton University

- Omaha, Nebraska
- Jesuit institution, founded 1878
- 105 acre campus adjacent to downtown
- 7000 students (58% undergraduate)
- Business, Dentistry, Law, Medical, Pharmacy schools
- *U.S. News and World Report's* #1 in the Midwest 12 of the last 14 years, last seven in a row.
- #5 in PC Magazine's Top Wired Colleges



Campus Systems

- Learning System: Angel
- Security System: Lenel
 - HID iCLASS, 3-track magnetic stripe
- Banner, HRMS
- Blackboard
 - UE 2.9 (3.6 in May)
 - Community 7.3
 - Follett, Sodexo, Pharos, Sequoia, SIRSI
- U.S. Bank partnership

About the Speaker


- Card Office Technician/Assistant Director
- 10 years at Creighton
 - 4 in Card Office
 - 6 in Print Shop as prepress/customer service



Microsoft[®]
CERTIFIED
*Desktop Support
Technician*




Why Rogue?

- Leaving old application
 - 3rd Party Support
 - Blackboard waiver
 - In-house data integration
 - In-office testing, configuration
 - 18-month project, from purchase to implementation
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Card Office Background

- 1990's American Express Special Teams
 - 2001
 - EPI Suite Pro 3.x
 - Switched to ID Works 5.1 in 2005
 - Bought features that did not exist
 - Did not thoroughly “try before you buy”
- 





Why Change?

- Security
 - Universal IDW account/password
 - Different EPI Suite user levels
 - EPI Suite Card Printed Status
 - User Logs/Audit trail
 - EPI Suite features:
 - Multiple card formats
 - Reporting
 - Bulk printing of cards
- 



Obstacles

- Resistance to change
 - Application knowledge
 - Interface
 - Database
 - Equipment
- 



Obstacles: Resistance to Change

- Partnership
- Access to Oracle Database
- Interface between card production and TS
 - Method to move data
- Consulting Project
 - Create custom Data Interface
- Support

Obstacles - Application

- Previous installation
 - 2005 to 2009
 - Version 3.x to 6.x "upgrade"
- Learning curve for new application
 - New FWS Students
 - Returning FWS Students
 - Office Staff
- EPI Designer = foreign language
 - Configuration for 2-sided cards; black vs. color
- FWS student working on user documentation

Obstacles - Interface

- Application to interface with Transaction System for new, replacement ID's
- Import data into new application
 - What records to select
 - How to import those records
- IDW_CARD table
 - B2M interface with Lenel, Community
 - Shared photos on campus with AMI

Obstacles - Database


- Which database format to choose?
 - Supports Access, ODBC databases
 - Oracle 9i or update to 10g or 11g
 - Platform: Linux or Windows?
- Script provided to build table structure
 - Modified to include custom fields, netID
 - What fields to add, which to integrate
- Moved to separate Oracle 11g instance in April

Obstacles - Equipment

- No “Card Production Kit”; must assemble separate from application
- Encoding cards
 - Use escape characters, like old system and NiSCA
- New Camera
 - Industry changing too quickly
 - Must have Remote Capture feature
 - Canon SX 100 IS, EOS Rebel IS



Testing

- Installed Server 2003 and Oracle 9i on workstation
 - Multiple database instances
 - Practice data imports from old application
 - Different custom fields, configurations
 - Oracle Enterprise Manager Console
 - EPI Suite Pro on new test/production PC
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Testing – Adventures in Oracle

- Learn schema structure
- Learn how to build an Oracle database instance
- Learn how to run .SQL file
- Learn how to add/modify users
- Triggers? → need help!

What I learned from Testing

- Can't do everything myself!
- IT programmer
 - Oracle triggers to IDW_CARD table
 - Populate database with active user file
- Oracle configuration, scripts, tnsnames.ora
- 1 card design per printer, per card
- User access levels
- Field mappings/new ID issuance process

Our Implementation

- 2 production stations, 1 test station
- Datacard SP55 printer and NiSCA 5300 printer
- Data mapping to IDW_CARD table
 - 7 fields
- Shared Oracle instance with BbTS – for now
- 2 Photograph fields
- 32 Card Formats
- 40 Person record fields



Security Features

- 6 default login accounts from Viewer to Admin
 - Assign custom logons for individuals or department
 - Change passwords regularly
 - Option to automatically logon to database
- Default log
- Print card once
 - Card Status: 13 options
 - Supervisor must override to allow reprint

Other considerations


- PC Logon
 - Active Directory or local account
 - Minimum Power User level
- Photo ratio, image size
- Plugin for Canon Camera
 - Additional license per device
- Windows privileges vs. Application privileges
 - All card formats available to all users
 - Use Windows privileges to limit access to files

What we did right

- Downloaded and installed evaluation copy
- Oracle script to force uppercase
- Import image location from old application
- Manage user access levels
- Name badges
 - No technology, only photo and name
 - Map name/title to EPI Suite fields
 - Create sequential CARD_CODES as card number

If I could do it again...

- Involve IT assistance sooner
- Expressions: .REG file
- Spend less time trying to import data
- Don't do too much at once
 - Get the application up and running
 - Add additional features/fields later
- Install on Oracle 11g database



What I miss about the old
Card Production System..




What I REALLY DO miss...

- Encode Only option
 - Simplicity
 - Project design
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But wait, there's more!

- OLE Automation
 - EPI Builder
 - EPI Designer
 - Printer SDKs
- 



Future Plans


- Encoding to HID iCLASS or other RFID
 - Integrate with Lenel
 - Combo box used to make selection and push data
 - OLE Automation application
 - Automatically copy Photo to Photo2 upon capture
 - Advanced logging
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Contact Information

- Mike Franz - mfranz@creighton.edu
- Regarding Cards – rochelle@regardingcards.com
- Imageware Systems - <http://www.iwsinc.com/EPISuite/EPISuite.cfm>



NACCU-Sponsored Resellers

- IdentiSys, Inc.
 - Laminex
 - National ID Supply
 - Regarding Cards
- 

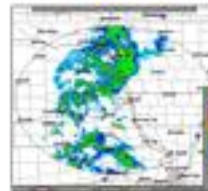
Vote for Creighton!

Creighton University Marketing Goes DIGITAL

NEC 32" LCD Display

Custom .NET application displays marketing graphics from two different folders, in addition to dynamic weather data from the internet.

- Dynamically divides the screen into five regions, based upon display size and resolution
- Inclusion of content from internet (weather) is optional
- Large area and small boxes can display images from same or different folders, local or network drive, at different speeds
- Select primary or secondary screen as display
- Log file tracks error messages
- Images are static JPG files, but constant motion grabs attention
- Displays more content than Powerpoint presentation.

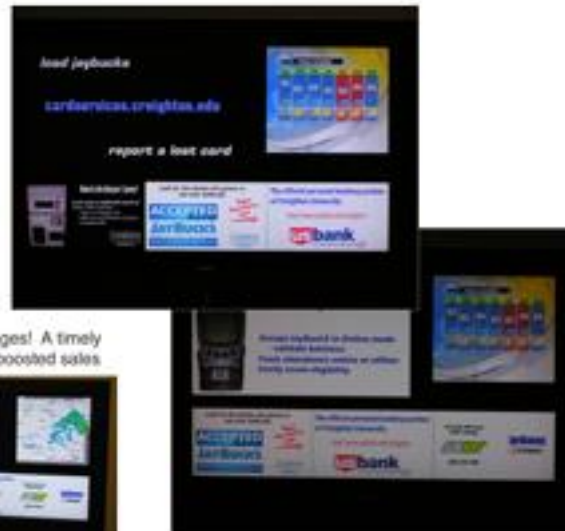


Accuweather = expensive
NOAA = FREE



Momento 10" Digital Photo Frame

- Dynamic, Full-Color Displays
- USB Flash Drive with JPG files
- 32MB drive holds over 120 images
- Rotating display of:
 - Off-campus Merchants
 - Deposit Locations
 - Office Hours
 - Meal Plan information
 - Card Office Policies & Services
 - Announcements



Nothing grabs attention like weather images! A timely summer storm displayed on local radar boosted sales of ICLASS cards for our summer program.



Now in a laundry room near you . . .