Slide 1:

WAVV 2005
Colorado Springs, CO

The 3270 to Web Revolution – the Easy™ Way

KICK ME.

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Slide 2:

illustro Systems International, LLC

- illustro – Latin for "enlightened" or "to illuminate"
- Focused on creating a different approach to mainframe technology to extend the life and acceptability of the mainframe
- New products, innovative services and new technology
- The people behind illustro represent some of the best known names in the industry
  - Involved at WAVV and the IBM Tech Conferences since inception

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Slide 3:

illustro Systems International, LLC…

- Privately held firm based in Dallas, Texas
- Offer only zSeries (mainframe) services and products
- Network of partnerships
  - IBM Business Partner
  - Infocrossing, Inc.
  - International sales partnerships
- Customers across all industries depend on illustro

illustro Corporate Headquarters at the Infomart—Dallas, Texas

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DAVIS VISION — THE EYECARE ADVANTAGE

Moore-Handley, Inc.

COLEMAN

Welcome to the Pennsylvania Treasury

ACS

DELTA DENTAL — Delta Dental Plan / New Jersey

SCICOM DATA SERVICES

New York State Unified Court System

WASHINGTON COURTS

AAA

ADI

A.O.SMITH ELECTRICAL PRODUCTS COMPANY

MOOG

Castle Metals® — "The Bar Professionals"℠

tyco

FUJIFILM

Registrar and Transfer Company — Professional Stock Transfer Services Since 1899

Armstrong

Adelphia

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illustro at WAVV 2005

z/VSE

- Speakers at 10 sessions on a variety of to...
  - Saturday, 11:45 a.m. - Mainframe – Status and Future
  - Saturday, 1:45 p.m. – CICS TS Hot Topics
  - Saturday, 3:00 p.m. – XML and Web Services for VSE
  - Saturday, 4:15 p.m. – CICS RDO for Dummies
  - Saturday, 4:15 p.m. – 3270 to Web Revolution
  - Sunday, 10:30 a.m. – Connecting VSE to the World
  - Sunday, 11:45 a.m. – 3270 to Web Revolution
  - Monday, 8:00 a.m. – VSE Hot Topics
  - Monday, 10:30 a.m. – Web Services 201
  - Monday, 3:00 p.m. - .Net Programming Example for VSE

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iServices

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iServices — Services Description

- Turn-key, integrated services
  - *iMOVE™* - Hardware and software installations and migrations
  - *iBUILD™* - Off-site system build and staging
  - *iTUNE™* - Performance analysis and tuning
  - *iPLAN™* - System capacity planning
  - *iCONNECT™* -Complete TCP/IP and SNA network design and implementation
  - *iASSIST™* - CA and other third party product installation and education
  - *iHELP™* - Remote system support via network access
  - *iRECOVER™* - Disaster recovery planning and testing
  - *iCALL™* - Telephone based support
  - *iTips™* - FREE email service with valuable tips
    - Subscribe at www.illustro.com/itips.htm

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iS.O.S. Services Offering

- Monthly Subscription Service
  - "All you can eat" service for telephone or remote access services
  - Unlimited remote support in the event of a total system outage
  - 24x7 support available
  - 1 time inventory and review of system layout, installation and configuration
  - Monthly email updates including service levels for IBM and 3rd party products, HIPER PTFs, tips and techniques, and other news potentially affecting the installation
  - Web-based access to iAnswers™--illustro's online KnowledgeBase – www.illustro.com/ianswers
  - Periodic conference calls on industry topics

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iS.O.S. Services Offering…

- Monthly Subscription Service…
- Performance Analysis of the System using iServer software
- Discounts
  - Discounts on on-site professional services
  - Discounts on illustro education courses
  - Discounts on illustro software
  - Disaster recovery planning, testing and preparation
- Excellent "insurance" – just like hardware maintenance, but for the system!
- Information at www.illustro.com/isos.htm

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A History of Education

iProducts

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illustro's C.Y.A. Network Security

- ISI's **C**ontrol **Y**our **A**ccess Network Security Appliance
- Turnkey, plug-n-play SSL security solution for S/390 users
- Up to 168 bit, RSA approved encryption/decryption
- Can provide user-signed certificates compatible with IE
- Secure Web, FTP and Telnet traffic makes zSeries systems ready for e-business
- Available in ethernet or token-ring
- Delivered completely configured for your network
- 90 day warranty – extended maintenance available

RSA SECURED ✓

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illustro's Internet-enabling Software

z/Ware

z/WEB HOST™

z/XML HOST™

z/Ware

illustro's Internet-enabling Software…

- Easy is the term
- Different by design
  - Measure ROI in hours, not days or weeks
  - You shouldn't have to be educated to use our software
  - White papers not required
  - Rely on homogeneous software, not a combination of disparate tools

IT'S OKAY TO TALK TO STRANGERS

z/XML HOST™

z/XML HOST™

- Transform *any* 3270 application data into industry standard eXtensible Markup Language (XML) document
- XML documents allow for data to be shared across data, system and processing architectures and environments
- Implement Web Services capabilites, including support for SOAP interface
- No changes required to any existing application
- Open your mainframe data and applications to Java, .Net, even Microsoft Office

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*i*Products
Product Description

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z/XML HOST™

- Runs *natively* on z/VSE-VSE/ESA or OS/390-z/OS
- Provides default translation without customization
- Support for XML Schemas – both user and industry defined
- Powerful XMLScreen facility allows for full filtering, specification or transformation

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*i*Products
Product Description

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z/XML HOST™

- Does not use CICS for access
  - Advantages:
    - Supports all applications
    - Does not utilize critical CICS resources
    - Does not need unstable and complicated 3270 Bridge
    - Does not rely upon CICS Map Names which may be unusable
- XMLScreen provides ability to easily eliminate data, rename fields
- Easy to write client side programs to interact
- Visual Basic sample apps distributed with download
  - VSE console
  - OS/390 console

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*i*Products
Product Description

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z/XML-Host Data Flow on a z/OS-OS/390 or VSE/ESA Mainframe

		T C P / I P	3270 data / 3270 data	3270	XML / 3270	XML	XML data / XML data	T C P / I P		SOAP Request
CICS-BMS	3270 data		z/XML Internal TN3270 Client gains control of App Data	XML-3270 and 3270-XML Trans-formation occurs using XMLScreen Defs	z/XML Internal HTTP Server interfaces with SOAP and XML Requests		H T T P		IBM Websphere
CICS-Non-BMS	3270 data								Microsoft BizTalk
Natural	3270 data								Java or .Net Application
IDMS	3270 data								
VTAM LU2	3270 data								Any Web Services Application
IMS Apps	3270 data								
Any 3270 App	3270 data		3270 data / 3270 data	3270	XML / 3270	XML	XML data / XML data			Microsoft Excel/Word Application

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illustro's Internet-enabling Software

z/Ware

z/WEBHOST™

z/XMLHOST™

z/Ware

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illustro's Internet-enabling Software

WE HAVE QUITE THE REPUTATION FOR BEING EASY.

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illustro's Internet-enabling Software…

FÁCIL, EINFACH,容易, LETTE. NO MATTER HOW YOU SAY IT, IT'S EASY.

illustro's Internet-enabling Software…

YOUR MAINFRAME APPS ON MONDAY.

TAKE FRIDAY OFF. IT'S THAT EASY.

YOUR MAINFRAME APPS ON THURSDAY.

ABRACADABRA!

Before

After

Magically TRANSFORM YOUR MAINFRAME IN JUST DAYS… IT'S THAT EASY!

Slide 1

KICK ME.

STILL USES 3270!

Slide 2

z/WEB-HOST

- Native, 2-tier implementation
- Designed to quickly and easily deploy the thousands of applications available on the mainframe worldwide
- Native web-browser access to <u>any</u> 3270 application
- More importantly – dramatic transformation

*i*Products   Product Description

Slide 3

z/Web-Host Benefits

z/WEB-HOST

- Grants instant access to existing application systems
- Uses standard browser interface
- Instantly transforms 3270 application to intuitive, web-browser interface
- Saves money by eliminating re-engineering or new application functionality

*i*Products   Product Description

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z/Web-Host Benefits...

- Improves productivity---new users can immediately use applications without training
- Rejuvenation saves money by delivering the promise of new computing without new machines, applications, staff
- Concurrent user license reduces cost

*i*Products — Product Description

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z/Web-Host Features

- Runs native on mainframe, either z/VSE-VSE/ESA or z/OS-OS/390
- Only requires a TCP/IP stack (works with all stacks)
- No client side software installation
  - Straight HTML
  - Optional JavaScript (but not JAVA!)
  - Works with all browsers

*i*Products — Product Description

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z/Web-Host Features...

- Compatible with any 3270 application; CICS or non-CICS based; your software, or vendor software
- Allows customer to instantly have access to 100% of their applications
- Complete control over levels of customization and look and feel
- No languages to learn

*i*Products — Product Description

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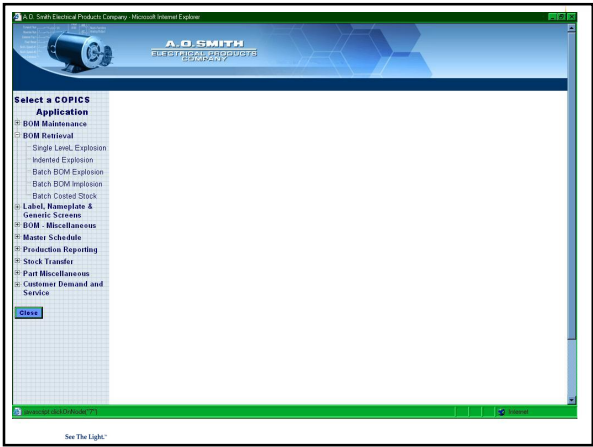See The Light.™

z/Web-Host Features…

3 main components tightly integrated
- Integrated Web Server
- TN3270 Client
- HTML Generator

i Products
Product Description

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z/Web-Host Features…

- Integrated Web Server
  - Provides communication between z/Web-Host and Web browser
  - Uses HTTP protocol to and from the browser
  - All documents/graphics stored on the mainframe
  - Internally handles communications with internal TN3270 client

i Products
Product Description

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z/Web-Host Features…

- Internal TN3270 Client
  - Provides communication between z/Web-Host and 3270 apps through connection to a TN3270 server
  - TN3270/TN3270E is used to send and receive native 3270 data streams between Internal Web Server and user app

i Products
Product Description

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Slide 1

z/Web-Host Data Flow on a z/OS-OS/390 or VSE/ESA Mainframe

	3270 data	3270	HTML	HTML data

CICS-BMS — 3270 data
CICS-Non-BMS — 3270 data
Natural — 3270 data
IDMS — 3270 data
VTAM LU2 — 3270 data
IMS Apps — 3270 data
Any 3270 App — 3270 data

TCP/IP TELNET

z/Web Internal TN3270 Client gains control of App Data

HTML-3270 and 3270-HTML Trans-formation occurs using WebScreen and Template Defs

z/Web Internal HTTP Server interfaces with browser Requests

TCP/IP HTTP

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Slide 2

z/Web-Host Features…

- **User Control of HTML Generation**
  - Different levels
    - Simple, default 3270 screen translation
    - General installation template
    - Advanced HTML Templates

Products   Product Description

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Slide 3

z/Web-Host Features…

- **Simple, default screen translation**
  - Basic features happen automatically
  - Screen layout is the same (geometry)
  - Any unprotected field becomes an input text box
  - Background and text colors will be same for every page
  - PF-Keys become buttons
  - Cursor position maintained
  - No work required

Products   Product Description

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z/Web-Host Features…

- **General HTML Templates**
  - Allows for broad changes with a minimum of effort
  - HTML document used as a template
  - System wide changes can be used to create common look-and-feel without coding for specific screens
  - Can be global, for specific groups, or particular screens

z/Web-Host Features…

- **Advanced HTML Templates**
  - Complete control over output
  - No respect for geometry
  - 24x80 can now be nn X mm
  - Can use existing HTML design tools, e.g. Microsoft Frontpage, Dreamweaver etc.
    - Layout the screen template using Web Design tools
    - Assign the data to AAF variables using z/Web-Host definitions
    - z/Web-Host dynamically plucks the data from the 3270 and merges it with the template
  - Screens can be combined using Automatic Application Facility (AAF)

z/Web-Host Features…

- **z/Web Application Automation Feature**
  - Enhances existing 3270 apps by allowing screen combining
  - Scripting language enhances WebScreen facilities
  - Allows for variable substitution, automatic screen input
  - Example: One hyperlink could retrieve an entire file instead of paging through

z/Web-Host Everywhere!

- Standard web-browser support
  - Not just PCs---any device using HTML browser
  - Doesn't use JAVA---simplifies environments
  - Nokia Communicator, Handspring Treo, Microsoft WebTV
  - Kiosks at airports and other public locations

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Customer Experiences

- Mike Milling, A.O. Smith Electrical Products
- Ellen Alexander, Lee County Florida School Board
- Sarah Kranz, Coleman College

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AOS Corporate Overview

- Diversified corporation
- Public company - NYSE
- Corporate headquarters
  - Milwaukee
- Smith family
  - active in business
  - > 51% voting control
- Cash dividends
  - paid every year since 1940

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AOS Corporate Overview (cont)

- Founded 1874
  - machine shop
  - bicycle parts
- Sales $ 1.5 Bil
- 14,800 employees
- 41 facilities
- Manufacturing focus - metalworking history

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AOS-Two Focused Businesses

55% - Motors (EPC)

**Sales
$ 1.5 bil**

45 % - Water (WPC)

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Electric Motors Overview

History

- Started as Whirl-A-Way Motors 1946
  - Initial focus was pump motors
- Purchased by A. O. Smith 1950
  - Early involvement in heating & air conditioning motors
- Enjoyed rapid growth 1960-80 with the air Conditioning boom
- Established Hermetic motor plant in Europe in 1976

A.O. Smith Has The Horses

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Electric Motors Overview

- Opened facilities in Mexico-1980s
- Acquisitions
  - Westinghouse Small Motors (1986)
  - UPPCO Motors (1997)
  - GE Hermetic Motors (1998)
  - MagneTek Motors (1999)
    - Century, Universal Electric, Louis Allis & Indiana General
  - Speeda - Shenzhen, China (2001)
  - Athens Products (2002)
  - Changheng Group Electric Motors Co. China (2002)
  - Taizhou Electric Motor Co. China (2002)

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Operating Environment

- z890 - 160   FrameRelay Network
- zVM 4.4
- VSE/ESA 2.6.0
- BSI - TCP/IP
- CICS/TS
- Database - DLI + DB2
- MRP application software - COPICS

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Why z/Web-Host?

- COPICS - in house since 1987
- COPICS - green screen presentation
- COPICS - no ownership of source
- COPICS - training is difficult
- new employees are WEB enabled
- modify presentation without changing the source
- implement newer technology in an evolutionary environment

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Samples
3270 LOGON vs **z/Web** LOGON

```
IESADMSO1                    CICS SERVER
    5690-VSE and Other Materials (C) Copyright IBM Corp. 2001 and other dates

    VV    VV  SSSSS   EEEEEEE         ++
    VV    VV  SSSSSSS EEEEEEE         ++
    VV    VV  SS      EE        ++   EEEEEEE   SSSSS     AA
    VV    VV  SSSSS   EEEEEE    ++   EEEEEEE   SSSSSSS   AAAA
    VV    VV  SSSSSS  EEEEEE    ++   EE        SS        AA  AA
     VV  VV       SS  EE        ++   EEEEEE    SSSSS     AA  AA
      VVV    SSSSSSS  EEEEEEE   ++   EEEEEE    SSSSSS    AA  AA
       VV      SSSSS  EEEEEEE   ++   EE            SS    AAAAAAAAA
                                ++   EEEEEE    SSSSSSS   AA  AA
                                ++   EEEEEEE   SSSSS     AA  AA

    Your terminal is TI30 and its name in the network is TI30
    Today is 05/09/2005  To sign on to DBDCCICS  --  enter your:

    USER-ID........ █        The name by which the system knows you.
    PASSWORD.......          Your personal access code.

PF1=HELP     2=TUTORIAL          4=REMOTE APPLICATIONS
                                10=NEW PASSWORD
```
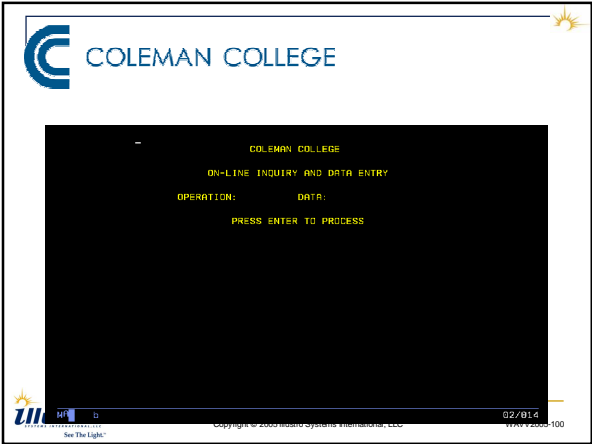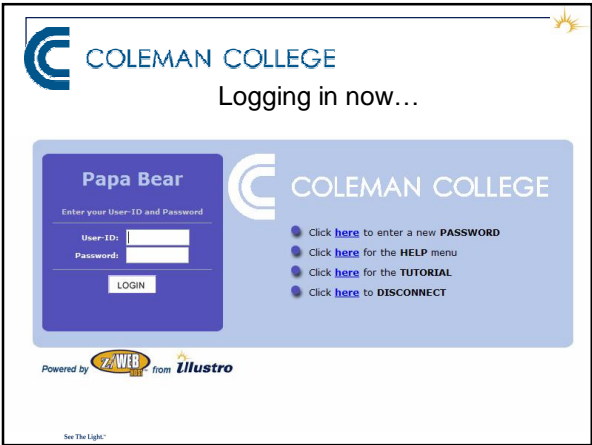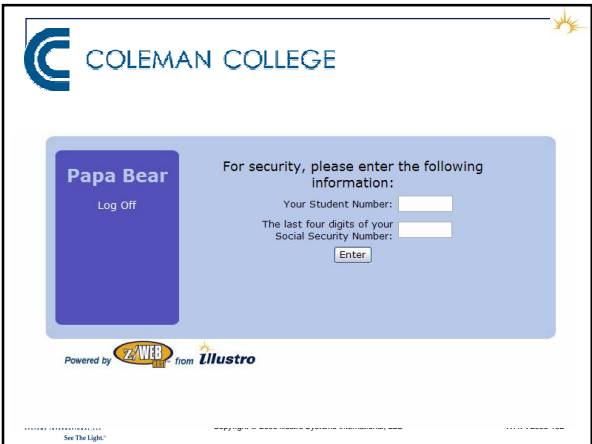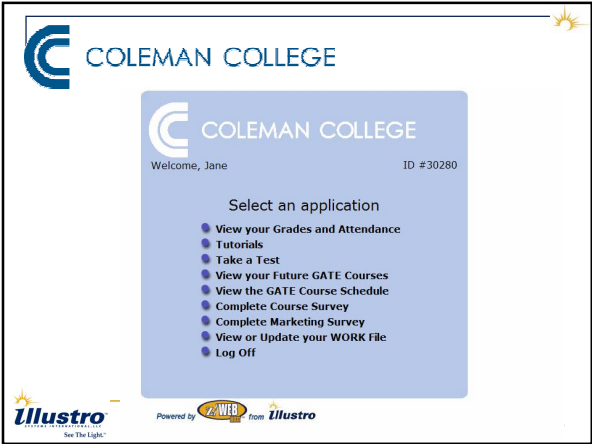
```
SION
        ****   ****  ****  *   ****  ****
        *      *     *     *   *     *
        *      *     * * * *   *     *
        *      *     *  * *    *     *
        ****   ****  *   *     ****  ****

*****      S I G N   O N    P R O C E D U R E      *****

    USERID    : █        DEPARTMENT :
    PASSWORD  :          FUNCTION   :
    LANGUAGE  : E        EMPLOYEE NO :
                         PRINTER    :




    TERMINAL ID :
    TTAB NUMBER :
    -----                              -----
```

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Samples
Copics – **z/Web-Host**

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Additional Samples
Copics – **z/Web** – **z/Web** Chinese

In Conclusion

- z/Web - easy to install
- z/Web - easy to implement
- z/Web - extends the capability of our 3270 presentations by interfacing with HTML and JavaScript
- z/Web - our internal customers say its easier to use. New users become productive in less time
- **z/Web - adds business value for AOS**

z/Web at SDLC

How we plan to use z/Web at the School District of Lee County

SDLC Overview

- We are the school district for Lee County Florida
- We have approx 70,000 students and 75 schools
- We have approx 10,000 employees
- We are growing at the rate of 5,000 students a year.

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Mainframe Environment

- Processor   MP3000-H30
- DASD   ESS-800 (Shark)
- Communications all TCP/IP except for Control unit for Computer room
- Database is CA/Datacom/DB
- Programming is done using CA/IDEAL, COBOL, PL/1, Assembler

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Mainframe Applications

- The mainframe is used for the District's Administrative application, including:
  - Student Demographics
  - FTE (state funding) Reporting
  - Financial Applications
  - HR Applications
  - We are in the process of re-engineering most of the applications. We will have a mix of in-house written and purchased applications

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Why Web-Enable

- Many of the systems are functional. We just need to put a prettier face on the applications. We also need to be able to integrate with other applications that are being developed and implemented for the Web.
- To re-write the system in .Net just to get pretty Web screens would take years.

Why z/Web

- We are using z/Web to web-enable currently developed 3270 screens. It will also be used in the future for new applications that just write data to a 3270 screen
- We are also writing .Net applications that will be deployed District wide
- We chose z/Web for web-enabling screens because it could be easily incorporated into a .Net or other application

What we have done so far

- We are just getting started with z/Web
- We have defined a standard template for all applications to use
- The student applications will be the first to use z/Web. We are currently defining a new student sub-system via z/Web and will incorporate others with it. One of the complaints from users is the difficulty of getting reports/data out of the systems. We are creating Crystal Reports to go along with this

Before and After

WAVV2005-85

Plans for the future

- We are planning on using z/Web for most of the Student Admin system.
- We are also planning on using it for new systems that are developed on the Mainframe for the Administration Systems

WAVV2005-86

illustro Support

- We have had good support from illustro
- For our pilot we had 2 of our programmers actually develop several screens, with a lot of help from the illustro prototyper, then the illustro folks defined the menu pages that tied it all together
- After the purchase we took advantage of the training provided
- As we are developing new screens now if we have a question we email support and get a quick answer

WAVV2005-87

COLEMAN COLLEGE

z/Web Host
User Experience

Sarah Kranz
skranz@coleman.edu

COLEMAN COLLEGE

About Coleman College
- Established in 1963
- Two campuses in San Diego, CA
- Private, non-profit institution specializing in IT education
- Offers short-term certificates, AS, BS and Master of Science Degrees

---

COLEMAN COLLEGE

Academic Programs
- Computer Information Systems
- Computer Networks
- Network Security
- Business Administration
- Computer Graphic Design
- Information Technology (MS)
- Business Technology Management (MS)

COLEMAN COLLEGE

The Coleman Difference

- Inverted Curriculum
- Hands-On Training
- Accelerated course schedule
  - Day classes and Master's classes start every 5 weeks
  - Night classes start every 10 weeks
- Focus on Career Preparation

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COLEMAN COLLEGE

Our Mainframe (aka "Papa Bear")

- Multiprise 2003
- Native VSE (2.6.0) – 2 LPARs
- 3 CICS regions: Production, Test, ICCF
- CSI's TCP/IP v1.4d
- z/Web Host

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COLEMAN COLLEGE

Our Applications

- Accounting
- Admissions
- Career Services
- Financial Aid
- Payroll/HR
- Employee Communications

- Student Records
- Class Schedules
- Computerized Testing
- Tutorials
- Course Surveys

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Our Applications

- *Everything* is done in-house
- Approximately 100 CICS applications
- 150 regularly used batch applications
- 30+ years of data
- Constant development
- 1 Systems/Applications programmer

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COLEMAN COLLEGE

Why web-enable?

- User-friendly
- Less end-user training required
- Image, image, image
  - "We're a *computer* school…"

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COLEMAN COLLEGE

Why z/Web Host?

- Toyed with CICS web support, too much work!
- z/Web was EASY
  - Quick results
  - No changes required to existing applications
  - Range of customization abilities: simple to advanced features

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COLEMAN COLLEGE

Implementing z/Web

- Webmaster designed "look and feel"
- Started customizing
  - Initial project is to build a student portal: provide easy access for students to the applications they use

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What it looks like…..

COLEMAN COLLEGE

Logging in before…

```
IESADMS01                    T E S T
                        VSE/ESA Version 2.6.0

  XXXXXX   XXXXXX   XX      XXXXXXXX  XX   XX    XXX    XX     XX
 XXXXXXXX XXXXXXXX  XX      XXXXXXXX XXX  XXX   XXXXX   XXX    XX
 XX   XX  XX   XX   XX      XX       XXXXXXXXXX  XX  XX  XXXX   XX
 XX       XX       XX XX    XXXXXXX  XX XXX XX  XXX   XXX XX XX XX
 XX       XX       XX XX    XXXXXXX  XX  X  XX  XXXXXXXXX  XX XX XX
 XX   XX  XX   XX  XX XX    XX       XX     XX  XX   XXXXXXX    XXXX
 XXXXXXXX XXXXXXXX XXXXXXX  XXXXXXXX  XX   XX  XX   XX    XX   XXXX
  XXXXXX   XXXXXX  XX   XX     XX      XX   XX  XX   XX     XX

               40 Years of Excellence in Education
                          1963 - 2003

        Your terminal is TE02 and its name in the network is TE02
        Today is 05/07/2005   To sign on to CICSTEST  --  enter your:

        USER-ID........ _           The name by which the system knows you.
        PASSWORD.......             Your personal access code.

  PF1=HELP      2=TUTORIAL              4=REMOTE APPLICATIONS
                                       10=NEW PASSWORD
```

Checking grades before…

Slide 1

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Tutorials before…

```
Please input a valid LERN package name:


               DREP_

               PF12 - Exit
```

Slide 2

COLEMAN COLLEGE

```
                    JANE ESMERELDA DOE

   THE FUNCTION OF A COMPUTER IS TO PROCESS DATA.

   ANY DATA TO BE PROCESSED BY A PROGRAM MUST BE IN THE
   COMPUTER'S INTERNAL MEMORY.  DATA IS STORED IN THE
   COMPUTER'S MEMORY IN UNITS CALLED BYTES.

   EACH UNIT, OR BYTE, CONSISTS OF 8 BITS.  'BIT' IS SHORT FOR
   BINARY DIGIT AND WILL BE EITHER A '1' OR A '0'. MEANING HAS
   BEEN GIVEN TO DIFFERENT COMBINATIONS OF '1'S AND '0'S SO
   THEY CAN REPRESENT PIECES OF DATA.


   Page   5 of  83
   PF1: Exit  PF3: Begin   PF5: BACK5  PF10: BACK1  PF12: FWD  Enter/Ctrl: Next
```

Slide 3

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```
                    JANE ESMERELDA DOE
   THE NUMERIC SYMBOLS THAT WE USE EVERY DAY BELONG TO THE
   _____SYSTEM.
        1.  BINARY
        2.  DECIMAL
        3.  HEXADECIMAL
        4.  EBCDIC




                    Your answer, please

   Page   9 of  83    Press Enter/Ctrl to continue.

        0297    PF1: Exit PF3: Beg    PF10: BK1  PF12: FWD
```

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Future Plans

- Employee portal
- Incorporate more graphics
  - Screen shots in tutorials and tests
  - Multimedia: movies, animation
- …and more

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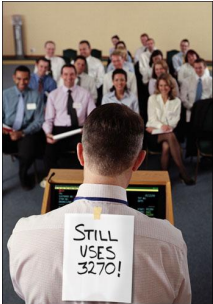### z/Web-Host Features…

z/WEB HOST™

- Product is licensed on <u>concurrent</u> sessions
- Live demo is available from our web site on an actual VSE/ESA or OS/390 system
  - www.illustro.com/livedemos.htm
  - Software and documentation can be downloaded, installed for 30 day trial
- Hands-on in the Vendor Expo starting Sunday at 12:45

*i*Products   Product Description

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