Digital Interaction among Applications

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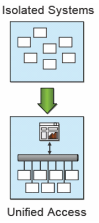
Administrivia

- Course meeting time:
  - Mon-Fri 10:00-13:00 (27/Feb-3/Mar)
- URL:
  - www.exa.unicen.edu.ar/catedras/idea/
- Course materials:
  - slides available on Web site (as they become available)
  - papers will be posted on Web site
  - on-line resources (e.g. eBizq, TMC, …)

The Need for Integration

- Users want to execute business functions that span multiple applications
- Requires disparate applications to be connected to a common integration solution
- However
  - Networks are slow
  - Networks are unreliable
  - No two applications are alike
  - Change is inevitable



Business shifts

- Business
  - Merges & Acquisitions
  - (global) Alliances
  - Globalization
  - Competition
  - Deregulations
- Technology
  - Power of Web
  - Global Access to Information

Pressure from CEOs

- CEOs of different companies/industries have a common theme
  - They want their IT organizations to improve the flow of data and information driving key business decisions
  - BUT information is locked up in applications within different departments and organizations!

Objectives

- What you should get out of this course
  - a basic understanding of large system architecture
  - an understanding of the technological building blocks needed for application integration
  - an overview of the state of the art in middleware, EAI, B2B and ESB
  - Overview of integration patterns
  - Analysis of case studies

Contents of the Course

- Concepts of data heterogeneity
- Technology building blocks
  - JCA
  - XML
  - MOM
  - WS
  - BPEL
- Integration
  - Styles
  - EAI
  - B2B
  - ESB
- Integration patterns
- Case studies

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