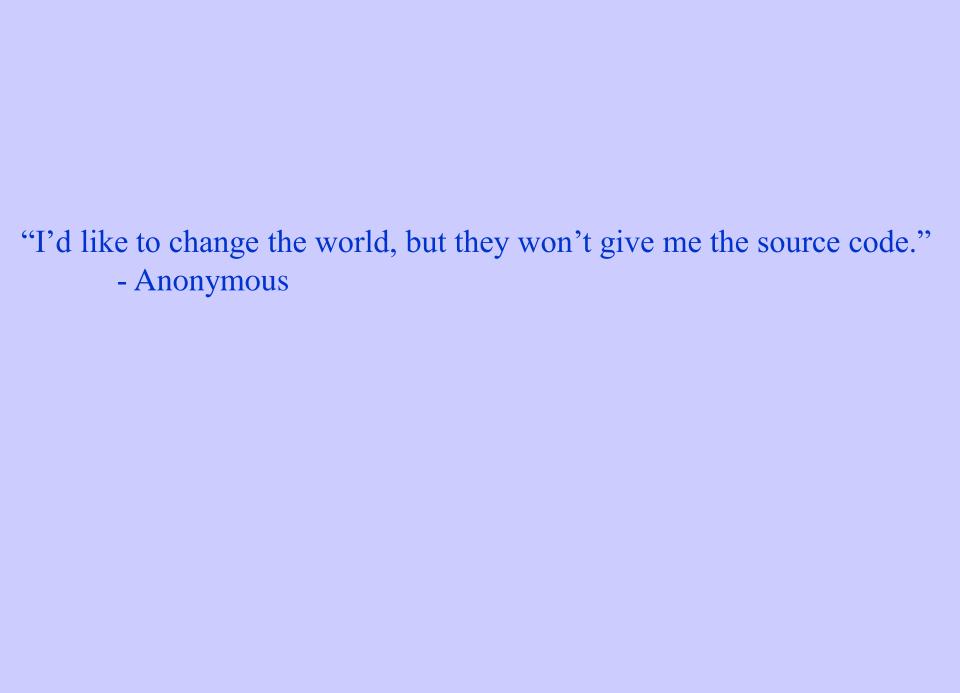
Web-enabling Mainframe Applications

Jeff Krukin
Corp. Applied Technology Manager
Attachmate Corporation
Nov. 14, 2000



Attachmate's history

Since 1982, Attachmate has developed and sold software products and services that enhance the use of legacy systems by making them available to new types of users via new technology platforms.















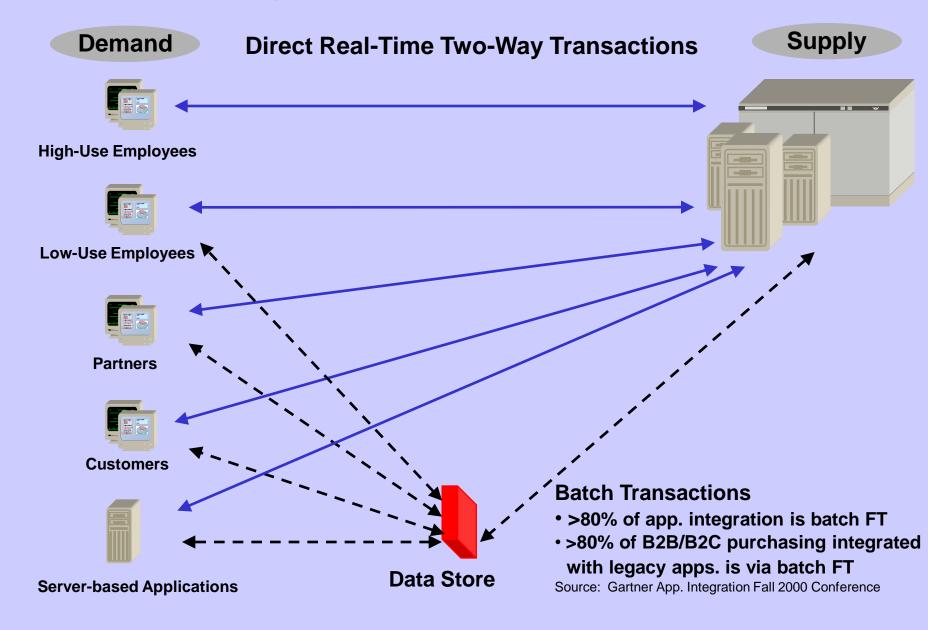


DOS PC's LAN's

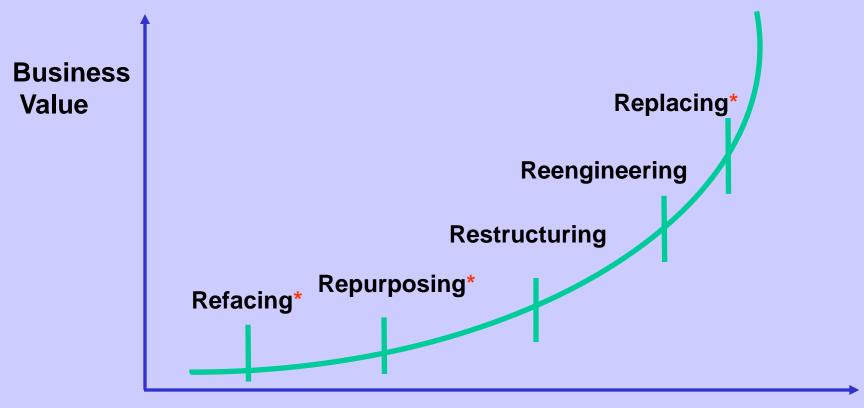
16-bit Windows 32-bit Windows Internet

Wireless

Linking Information Demand to Supply



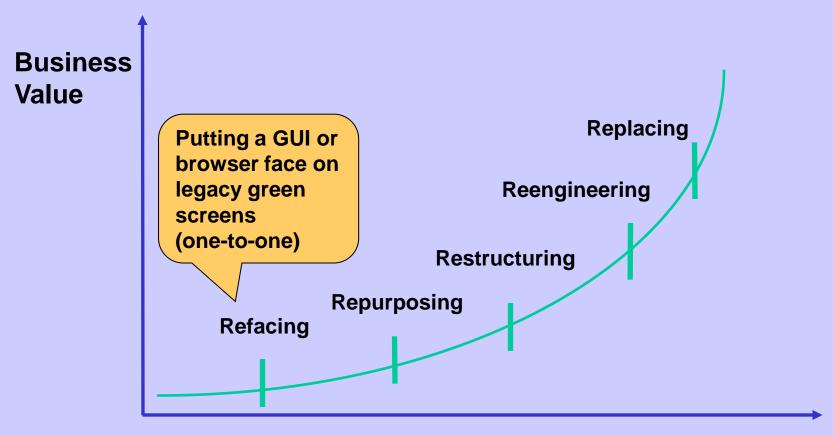
Revisiting Enterprise Applications



Time & Cost to Implement

Any number of enterprise applications can be extended using any of the five methods at any point in time!

Refacing Enterprise Applications



Time & Cost to Implement

Thick Client Refacing

- Emulation enhanced with:
 - Quickpads
 - Navigation
- Perfect for high-use employees
- Advantages:
 - Full features for power users
 - Easy integration with Windows applications
 - Upgrade path to other Refacing products

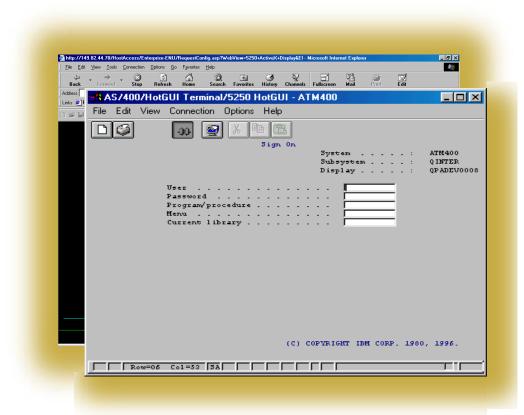




Refacing Products
EXTRA! Enterprise 2000
EXTRA! Personal Client
INFOConnect

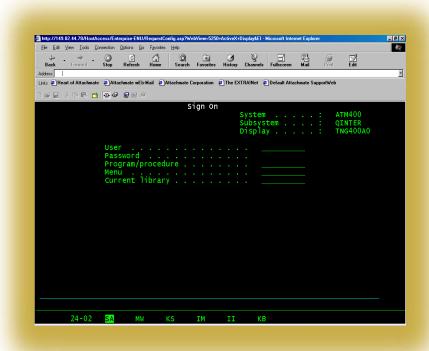
Thin Client Refacing

- Converts host text screen to a mouse-navigated interface (HTML)
- Perfect for low-use employees and business partners
- Users see familiar host screens, but navigate more easily
- Advantages:
 - Speed
 - Accuracy
 - Cost Reduction



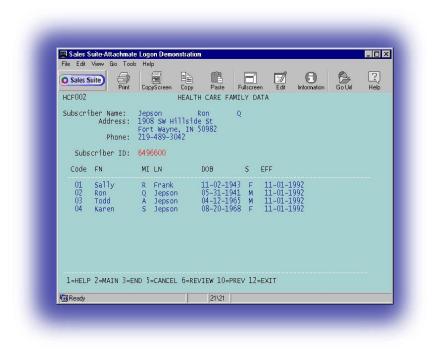
Browser Applet Refacing

- Thin browser applet (Java or ActiveX)
- Perfect for geographically distributed employees
- Deployed in as little as one day
- Distributed & managed from a server
- Advantages:
 - Speed
 - Cost Reduction
 - Deployment
 - Support

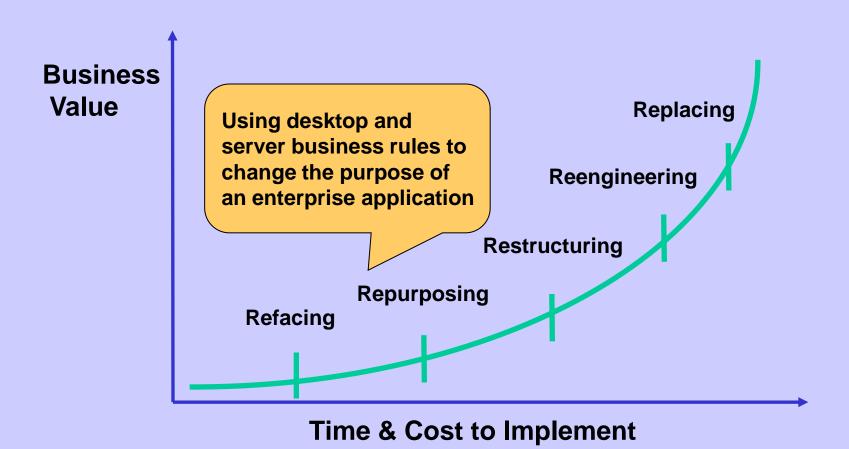


Custom Objects Refacing

- Custom-built with Java or ActiveX objects
- Specific to host application
- Perfect for new or remote employees and business partners
- Easy-to-use with little or no training
- Implemented in 3-5 weeks
- Advantages:
 - Adaptable
 - Customizable
 - Secure

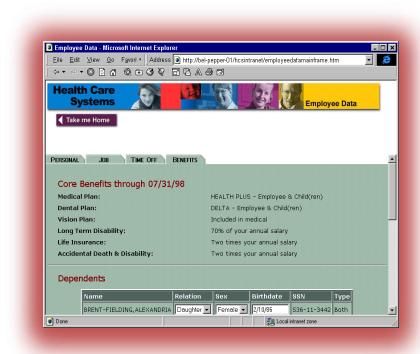


Repurposing Enterprise Applications



Repurposing for employees

- Intranet: direct information access for employees
- Integrates and filters disparate resources
- Server aggregates data (XML, ODBC) and delivers HTML GUI
- Advantages:
 - Speed-up communications
 - Improve efficiencies
 - Easy web interface
 - Data encryption



Repurposing for business partners

- Examples of externalization projects:
 - Filtered information to vendors
 - Order status to sales channels
- Access is secured by logon and password
- Advantages:
 - Strengthened partnerships
 - Faster value chain
 - Reduced labor and costs

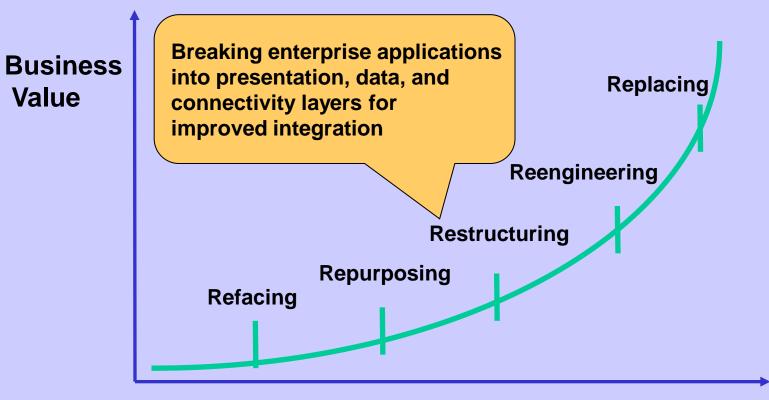


Repurposing for customers

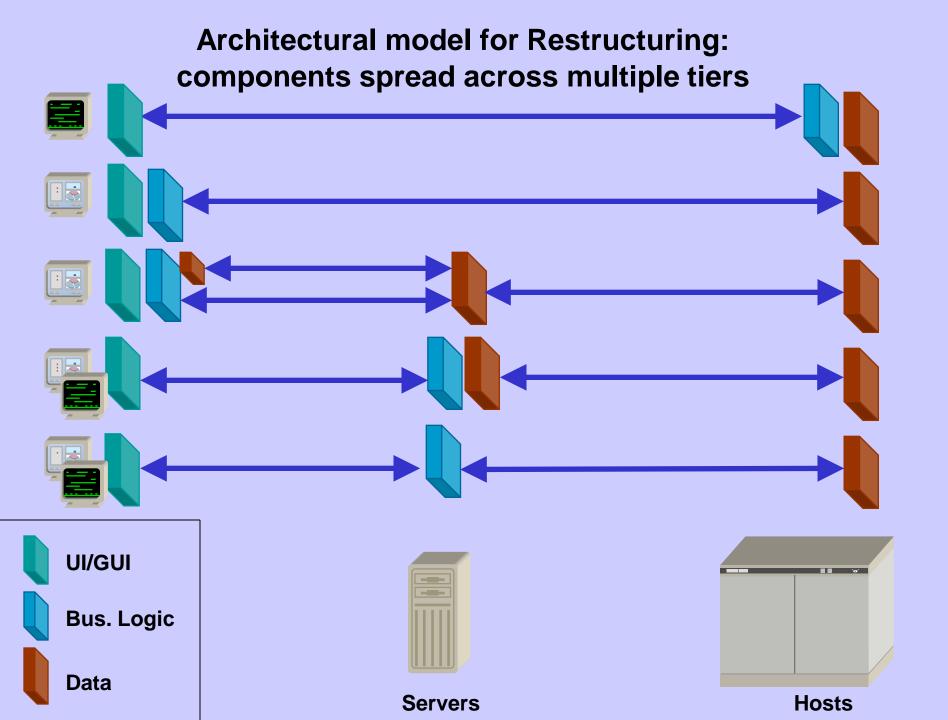
- Create unique web applications for your customers
- Improve service levels by processing online transactions in real time
- Create custom business logic to integrate multiple applications
- Advantages:
 - 24x7 (self) service
 - Cost reduction
 - Efficiencies



Restructuring Enterprise Applications



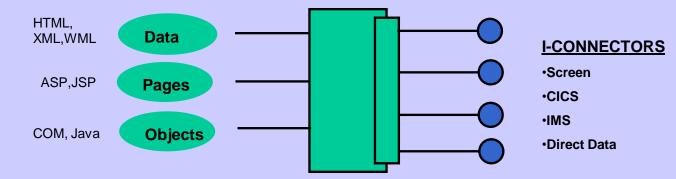
Time & Cost to Implement



Restructuring via process integration

- Integrate transaction systems using server-based session management
- Customers and partners check orders via the internet
- Use with JD Edwards Order Entry, AS/400 Systems, SAP, Baan, etc.
- Advantages:
 - Cost reduction
 - Speed
 - Mobility
 - Accuracy
 - Security

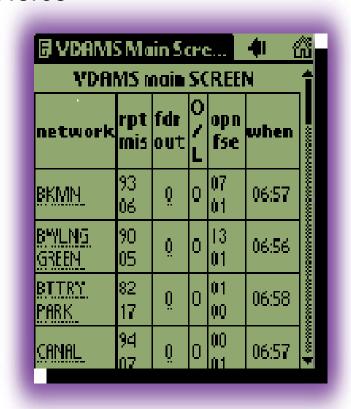




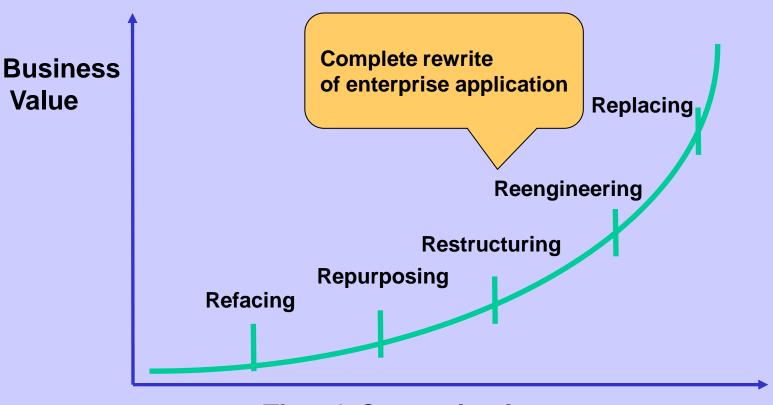
Restructuring Product e-Vantage BizManager

Restructuring via new containers

- Cell phones
 - -WAP & WML
- Palm Pilot or Windows CE devices
- Perfect for mobile work force
- Advantages:
 - Speed
 - Higher productivity
 - Cost reduction
 - Mobility
 - Accuracy
 - Security



Reengineering Enterprise Applications

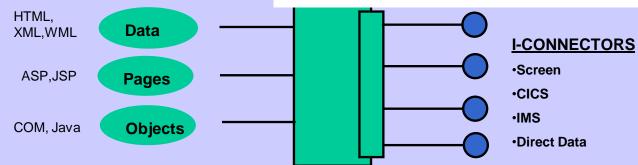


Time & Cost to Implement

Reengineering via Enterprise Application Integration

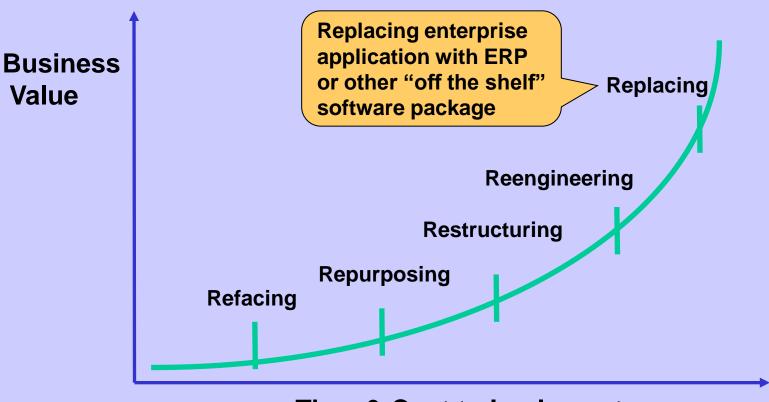
- Middleware wrappering & integration with transactions or other data sources
 - Ex.: XML interfaces between business applications
- Expand applications beyond original design
- Advantages:
 - Integrate business processes (logic)
 - High ROI
 - Old data, new possibilities





Reengineering Product e-Vantage BizManager

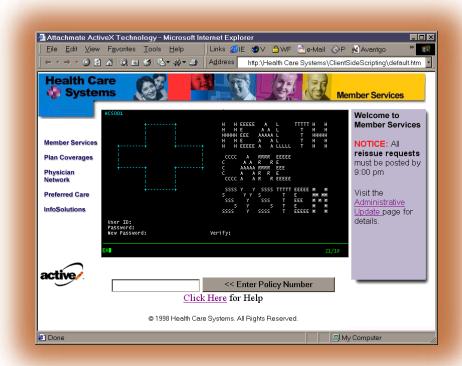
Replacing Enterprise Applications



Time & Cost to Implement

Replacing via Enterprise Application Integration

- Legacy apps. combined with other apps., including ERP and CRM
- Client-based integration
- Create extranet or intranet applications
- Advantages:
 - Reusable objects
 - Highly flexible
 - Lower costs
 - Enhances ongoing integration
 - Accommodate merged functions



Replacing via process integration

- Support for HTTP, IBM MQ Series, & Microsoft Message Queue transports
- Support for XML-enabled Intelligent connectors:
 - CICS, IMS, JDBC, Screen (LU2)
 - Data translation & transformation services
- Error handling/logging
- Advantages:
 - Integrate business processes (logic)
 - High ROI
 - Old data, new possibilities

