Business End of EAI & BPM

Precision Strike Technology Symposium
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Bad To The Bone
The Other Business End

Visibility

Cost Per Target
Talking Points

• Review EAI and BPM concepts
  – Automate
  – Organize
  – Compare
  – Report
• Cinergy Corporation case study
• Enterprise Targeting and Strike System (eTSS)
• Wrap-up
The Challenges

• Increasing **productivity** without staff

• Drive project activities and **analyze metrics**

• Maintain **knowledge** with dynamic workforce

• Get **quick access** to critical information
The Challenges (Con’t)

• Manage work across geographies
• Facilitate collaboration with limited bandwidth
• Traceability with digital media
• Interface quickly with numerous customers
EAI & BPM Successes

ALCATEL
SPACE

SNECMA MOTORS
SNecma group

NE NOOTER/ERIKSEN

EDF
Electricité de France

CINERGY®

Micro Turbomachinery
SNecma group

LOOK

BONNEVILLE POWER ADMINISTRATION
Islands Of Automation

Corporate Knowledge

Management

Marketing

Finance

IT

Sales

Engineering

Support

Quality

Purchasing

Vendors

Subcontractors

Operations

Customers

CM

CRM

ERP

CAD

CMII

SCM

C2B

ERP

CRM

COM

CRM
EAI Technology Enablers

- eXtensible Markup Language (XML)
- Java 2 Enterprise Edition (J2EE)
- .NET
- TCP/IP
- RDBMS
- HTTP
- Web browser
- Connectivity
Package Metaphor

Related Information

Data Fusion Process
Business Process Management

Marketing
Finance
Management

Engineering
Support
Quality
Purchasing
Subcontractors

ERP
CM
CMII
SCM

Parallel Group 01
Translate

10-13-04
Precision Strike Technology Symposium
Overview

- Headquarters: Cincinnati, OH
- Over 9,000 employees
- Midwest leader in low-cost generation & energy commodities trading
  - 19,000 megawatts of capacity
  - Production costs 9% below regional average
- Energy Merchant Business Unit (EMBU)
- Manages 20 power stations
- Gibson station largest coal plant ~8,000MW
- Use technology for competitive advantage
Cinergy Approach

• Make it easy to use
• Support 1,500 users
• Leverage existing systems
  – Oracle
  – MicroStation CAD & PDM
  – Email
  – Web servers
• Automated 4 mission critical processes
  – A&E Transmittal
  – New Work
  – Budget Approval
  – Work Order
• Reduce processing cycle time by 25%
• Implement EAI/BPM solution in 2001
The Results

- Managed over **3,000,000** drawings & data
- Reduced average cycle time by **42%**
- Trained **1,500 users** in a matter of days
- Little impact on **existing networks**
- Works with **legacy systems**
- **6 month** implementation period
- **3 year savings of $4.1M**
  - $500K investment
  - 10 person implementation team
**eTSS Leverages the Power of the Web**

- **Ensures Time Critical Strike**
  - Browser gets “right” information to “right” people at the “right” time
  - Automates the sensor to shooter business process
  - Pushes information using workflow engine
- **Leverages legacy systems**
  - Browser based, no special client software loaded
  - Works with existing hardware and network infrastructures
  - Operates across heterogeneous systems
- **Demonstrates joint fires operation**
  - Pathfinder connecting ISR, C2, mission planning, targeting, and strike execution phases
  - Provides distributed target/battlespace management capability
  - Early implementation of DCGS enterprise architectural concepts – significantly reduces DCGS implementation risks
Navy Automation Challenge

Corporate Knowledge

FIRES Coordination

CMSA Support

Mission Plan Development

Tactical Messaging

Real Time Mission Monitoring

Logistics Information

Targeting Support

INTEL Management

Target Management

Navy Automation Challenge

Corporate Knowledge
eTSS Current Solution Scope

- Portal Presentation Engine
- Service Integration Layer
- Workflow Engine
- Data Integration Layer

- Targeting Support
- Strike Plan Folder
- Target MGMT
- INTEL MGMT
- FIRES Coordination

J2EE Core
Initial Mission
Capability Packages
Wrap-Up

• EAI & BPM solutions work

• Next logical step in Precision Engagement

• Saves time & people

• Next time you see the architecture slide think