

- > Systems Integration.
- > Outsourcing.
- > Infrastructure.
- > Server Technology.
- > Consulting.

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Imagine it. Done.

Unisys IT EAI Modeling Strategy with the UML

eIntegration

Team

Unisys IT



UIT EAI Modeling Strategy

- **One modeling language - Unified Modeling Language**
- **One modeling tool - Rational Rose**
- **Three levels of abstraction**
 - Enterprise – Road Atlas
 - Value Chain – Route Plan
 - Application Interface – Street Map
- **OMG UML Profile and Interchange Models for EAI**
 - Complementary to our approach
 - Package software support issue
 - Evolving towards



Enterprise Model

Road Atlas

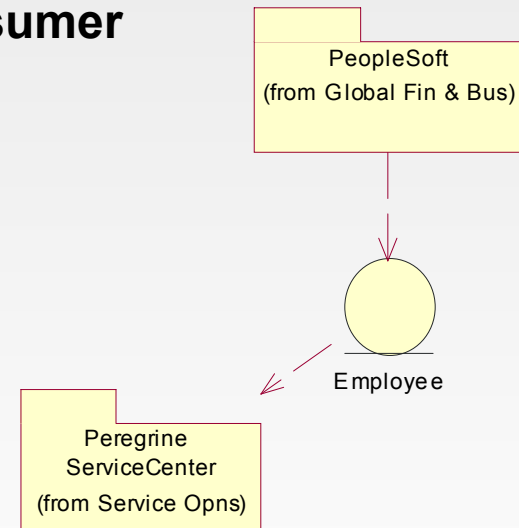
Vision – a high level logical model that describes the relationships and dependencies among systems.

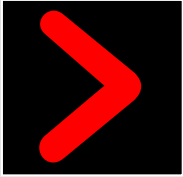
■ Purpose of the Enterprise Model

- Catalog applications - suppliers / consumers
- Catalog “business objects” - information documents
- Show *dependencies* among producer/consumer
- Abstracts interface and message format

■ Usage/benefits

- High level analysis, “ice breaker”
- Portfolio review
- Change impact assessment
- Business objects where used
- Integration planning
- Reuse opportunity identification





Enterprise Model

Issues

- **Key challenges**
 - This uncharted desert isle
 - Where's the doc?
 - But then they sent me away to teach me how to be logical
- **Lessons**
 - Just do it
 - ABC, easy as 123
 - Existing enterprise documentation can be helpful
- **Best practices**
 - Keep it simple
 - Make them an offer they can't refuse
 - Brought to you by your local EAI competency center
 - Use it or lose it



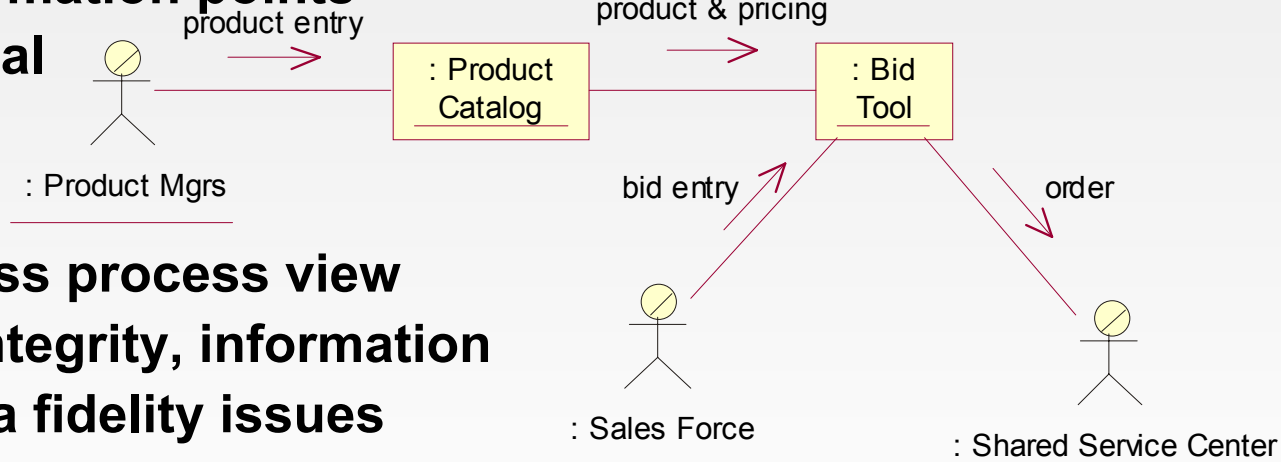
Value Chain Model

Route Plans

Vision - physical realization of logical Enterprise Model for a set of related entities

- **Purpose of value chain models**

- Identify the physical collaboration among actual information producers and consumers
- Visualize information paths
- Expose transformation points
- Define contextual usage of data



- **Usage/benefits**

- Enables business process view
- Exposes data integrity, information latency and data fidelity issues
- Supports process reuse, optimization, re-engineering



Value Chain Model

Issues

- **Key challenges**
 - Knowing why you're taking the trip
 - Mission creep
- **Lessons learned**
 - Little bit country, little bit rock and roll
 - The “vision thing”
- **Best practices**
 - *Don't* “just do it”
 - Model early, model often
 - Eat your own dog food



Application Interface Models

Street maps

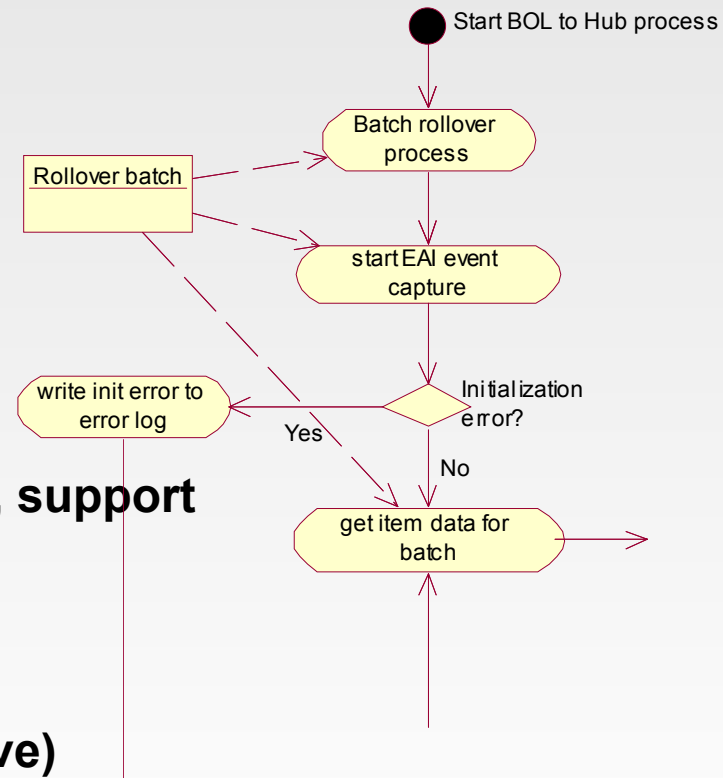
Vision – a model to design and document an applications interface implementation.

■ Purpose of application interface models

- Specify application interfaces
- Specify business service request

■ Usage/benefits

- Communicates
 - Intuitive yet rigorous
 - Common language (the UML)
 - Standard (complete documentation)
 - Through design, construction, testing, support
- Get reuse to it
 - Plugging the brain drain
 - Reduce risk single point of knowledge
 - Reduces relearning time (learning curve)
 - Eliminates code wandering





Application Interface Model

Issues

- **Key challenges**
 - Level of detail to capture
 - Capturing data mapping specifications
- **Lessons learned**
 - Reading models: easy
 - Writing models: not so easy
 - How do I support thee, let me count the ways
- **Best practices**
 - Everything old is new again
 - Get a little help from your friends
 - Do some basic training



Summary

- **One**
 - Modeling language - Universal Modeling Language
 - Modeling tool - Rational Rose
- **Three levels of abstraction**
 - Enterprise – Road Atlas
 - Value chain – Route Plan
 - Application Interface – Street Map
- **Conclusions**
 - It works
 - IT vision and leadership is key
 - Competency center a critical enabler
 - Find what works for you to ensure wide participation
 - Balance breadth versus depth
- See November eAIJournal.com for detailed article

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Thank You.

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EAI Project Staffing Strategy

- **Some full-time permanent staff**
 - Core EAI team (aka Competency Center)
 - Shared data models and reusable work products
 - Specialized EAI technology and tool skills
- **Some committed temporary staff for project durations**
 - Application team members
 - Application data models, interfaces and internal processing
 - Application-specific technology and tool skills
- **Some part-time temporary staff for task durations**
 - Application team members, architecture staff, contract staff
 - Consulting or task delivery requiring deep knowledge of infrequently used technologies
 - Specialty technology and tool skills

Return