New EIS, Panic and Role Change

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Topics

- Advances in Business Innovation
  - Service-oriented Architecture SOA
  - Demo

- Shadow Side of Advances
  - World Panic

- Regulate?

- What’s Changing?
EIS Crucial Points

EIS must

• be an enabler
  – which makes enterprise happen.

• be of Biz-aligned throughout Lifecycle,
  – Just in time as Biz demands,
  – Meet Exactly What Biz needs.

• comprise one key element in pursuing Enterprise Biz Innovation steadily.

• meet ROI and Risk Allowance.
Recent Advances in Biz Innovation

- Post BPR, e.g. Financial Engineering
- SVC
- SOA
- Lighter-weight WebAPIs and RESTful services in smashups
- Cloud Computing
Definitions

Service Computing

• A Science and Technology solving The Gap between business services and IT
• Research on Total Lifecycle of Service Innovation
• Web services, SOA, Business Science etc.

SOA

• Service-oriented Software Architecture
• SOA based EIS realize
• Service Components Convention and their Development and Maintenance Methods
• Reuse of Service Components
SOA

• Actually Work? ≠
  – Turn Key to go with EIS?
• Sufficient?
  – Enough to Innovate Biz?
• Bright IT Century?
  – Improved ROI?
Demo

- **Point:** *How easy to have Service Computing-based EIS with Modeling Biz Process and Systems Deploy*

- **Environments Used**
  - For Design, "Intalio Designer BPMS"
  - For Deploy/Implement, "Intalio on the Server Geronimo"

- **Two cases**
  - Small-scale: Message Client-Server
  - Medium-scale: Web Shopping Systems
Keypoints of Enterprise Innovation

1. BPR by BPMN
2. Realize EIS by Web services Deploy
3. Run EIS through ESB*

Enterprise Innovation actually possible to accomplish thru this PDCA Cycle.

*ESB → Enterprise Service Bus, a part of computing infrastructure
Demo Steps

• For Simple Case
  – 1. Show you a Biz Process Model
  – 2. Transform to Implementation
  – 3. Execute the systems

• For Complicate Case
  – alike

• Watch out How easily accomplish this cost-consuming tasks just within a few minutes
What is BPMN?

• A Standard used for express Biz Process that comprises controlled flow of biz activities with message.
• A Common Language understandable for every ones.
• Used for Realizing Biz-Aligned EIS
• Biz Innovation as well as Auditing?
• Handled previously by BPMI, now OMG
BPMN Symbols used

Event

○ ○ Origin, (mid), Terminate

Activity

中国大陆、日本、台湾

Gateway

X: exclsvOR、O: OR、+: And

Sequence Flow

Activity Seq Flow in Process

Message Flow

Flow of Message send/receive

Associate

Relationship between entities
The Demo Reminders

• Keep in Your Mind of Three Major Steps of Enterprise Biz Innovation.

• Take less Time, so you shouldn’t miss the key points.
What you’ve seen in Demo is Key Tasks for Enterprise Innovation

1. BPR by BPMN
2. EIS Realize by Web services Deploy
3. EIS Run through ESB *

Enterprise Innovation actually possible to do by this PDCA Cycle.

*ESB → Enterprise Service Bus, a part of computing infrastructure
One short reminder about the freeware Intalio's Business Process Modeling and its Deploy and Model Enacting.

"Just key-in the Login ID and password which must be given upon registration, then you will be able to execute all the needed process without any problem, I'm sure."
You do quickly…

- innovate your Enterprise Biz and consequently put the EIS into Practice.

- Get biz advantages than competitors do.
This One Example is

• Sub Prime Loan Enterprise Information Systems
Causes and Consequences of The Crisis
World Panic

• Causes
  – Wicked Biz Model
  – IT support
  – Deployment
  – Price Turn Over

• Consequences
  – Deadlock/credit
  – Financial Crisis, Toxic Assets
  – Industrial Recession
Who’s Responsibility?

• IT: an accomplice of the crime

• Government responsibility
  – Help people and let them survive
  – Stop repeating such unhappiness
  – Enhance people’s wellness and wealthy

• IT Community Responsibility
  – Right Utilization of IT
  – Check IT Now
Bright side of Advances allow you

- To Have EIS Realization Very First.
- And also to solve the four crucial points.

- The Shadow side attacking people and giving serious damages, e.g., US Sub Prime Loan EIS.
- Need Regulate as new social concerns.
Governments spend Resources

• But No Guarantee to protect people from the Repeating.

• No Wander if Another Attack coming, because the causes still be there.
IT Shadow and Light

- Security Violation by Hacking, Virus
- Dark Transparent Accounting Systems
- Terrorism-support Information Systems
- Tricky Wicked Money Trader support Systems
EIS Experts Role

- Now Get More Power in Enterprise
- Able to Play Core Role in Biz Modeling
- Improve ROI of EIS
- Realize Biz-aligned EIS
- High Chance to Promotion
- and Ethical Responsibility
## Role’s Changing

<table>
<thead>
<tr>
<th>Before SOA</th>
<th>After SOA</th>
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<tbody>
<tr>
<td>• Object-oriented</td>
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Before SOA: Object-oriented, Systems-oriented, Technology-conscious, Technology Enabling, Cost-conscious, Follower

After SOA: Service-oriented, Biz-oriented, Biz Process-conscious, Biz Enabling, ROI-conscious, Leader
Possible Repeat?

• Why No 🙁
• It’s possible to make more wicked model happen.
Regulate?

Pro’s

• Yes Need Alike Regulate of Nuclear Weapon Spread, CO2 Climate, Rear Species Trade
• Stop Repeating
• Avoid Leak know-how to Terrorist Groups

Con’s

• No because no effective way exists
• More wicked and need much money to avoid the repeating
• Prevent Cost Not Affordable
Major Issues

• Social: Regulation must be there.
  – Not only Biz side But also Technology Use side
• Project:
  – Towards ROI-based and NOT Brute Force
• Standardization:
  – Invoking is all right thru WSDL
  – Standards for Reuse is needed
  – Body itself as well as Interface
• Exploitation:
  – Lack of Components Availability
Choice

• In-house Make or SaaS with SLA

• Seems Shift to just reuse services from outsource for four crucial reasons.
Towards Future

- Old Fashion Development is over and no longer used.
- Has-to-do is to incline much more to expertise conscious than brute force.
- Service Computing is exploiting throughout EIS domain.
- Goal-oriented rather than Technology-oriented.
- Embedded Systems has to be innovated.
- Environment turns to cloud.
SM-scale Enterprise must defeat Large

• IT Invest has not been affordable.
• SOA made change this definitely.
• Why not utilize SOA for EIS.
• More first, adaptable, costless, risk-hedged EIS project becoming possible.
Paradoxical?

- Once SOA caused Panic.
- Now SOA save Enterprise?
- SOA Plus maybe.
Conclusion

• EIS Breakthrough will save us if it technically enhanced and socially regulated.

• Not only because overcome recessions, but also because pursue essential sustainability of enterprise.
Thanks everyone!

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