



Session 10017

Using SOA to Implement Cloud

---- One Company's Modernization

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Agenda



Complete IT transformation

- From business case to initial SOA implementation to Cloud
- Based on my experiences as a Business Development Executive for an IBM SOA innovation team

Review, from my perspective

- Executive decision process
- Technical features and Business influences
- Cultural dynamics
- Success / Failure factors
- Progress, outcomes and Lessons learned

Not a discussion of SOA concepts nor BPM technology nor value propositions nor products nor ...

IT Modernization My job? Make the project successful...



Understand organizational strength and weakness

- Budget allocations/process, territorials, job roles, departmental boundaries, NIH mentality, DIY hazards
- Corporate attention span is short

Risk and Reward are important to the executives

- Define Success early in their terms
- Know who will win, who will lose and how are they motivated

Look forward, look backward, absorb the whole picture

Involve technical staff and less-obvious stakeholders

Personal Check List for Risk



- What is the Catalyst driving the project?
- Who owns the funding and how wide is sponsor's realm?
- Can this be successful? Is this a good idea or not?
- Is it possible to declare success quickly?
- Are there sufficient technical and business skills?
- If they attempt this, what are the odds of success?
- Will the sponsor still be employed after the 1st phase?
- Is the infrastructure or tooling multi-vendor?
- Is there a Strong Line of Business (LoB) involvement?

Beyond the Marketing and Benefits



Early projects bear a huge burden

- Design and architecture
- Tooling of life cycle
- Training and roles
- Policies and governance

Subsequent projects benefit from this foundation, reuse of services and flexible architecture, Cloud, and so on

Benefits such as Agility, time to market, blah blah

but... it'll take 5 years, and the budget is what ???

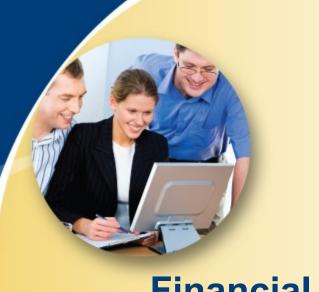
SOA's deadly dozen



"The common mistakes in adopting a service-oriented architecture (SOA) are now well understood and, with a little effort, can be avoided."

"Ignoring (and therefore repeating) such mistakes can derail the entire effort you put into introducing SOA and lose you the benefits. Listed here are the 12 most common mistakes Gartner has observed in SOA implementations."

Massimo Pezzini http://www.computing.co.uk/ ctg/analysis/1844704/soas-deadly-dozen





Financial Services Automation Provider

Financial Automation Provider Business aspects



Customer profile

- Tens of 1000s of small storefronts using a fat desktop client
 - Handful of corporate customers
- Set of tools sold to other financial providers
- · Sales model relies on heavy customer touch
 - Contracts customized to each customer

Growth Plan

- Grow partnerships
- Sell Corporate add-ons
 - Introduce Value-based pricing

Financial Service Provider Business aspects



Core Business

Recognized lack of own Industry's uptake of standards as an opportunity

- Automate the financial workstream
- Streamline data movement
- Efficiency is a strong selling point
- Deliver 1-2 new releases a year, updates every 3 months

300+ employees, privately owned

Financial Service Provider Business aspects



Core Business

Recognized lack of own Industry's uptake of standards as an opportunity

- Automate the financial workstream
- Offer compliance solutions
- Streamline data movement
- Efficiency is a strong selling point
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300+ employees, privately owned

Financial Service Provider Technical Aspects



IT grew organically, relying on point to point integration, custom scripts and gurus

- Central Inventory system made to perform unnatural acts
- No customer intelligence for Sales team
- Billing and revenue stream incomprehensible

No efficiency, no automation, slow to update

Frustrated every facet of the company

Financial Service Provider Cultural aspects



Start-up run by college friends, including former IBMers Sponsor is a very sharp VP

CTO was aloof from the effort

Technical expertise was .net centric

Staff was stretched to their limits

Absences caused processes to break down

Financial Service Provider Technical Aspects



Where to start? Business process issues abound

- Front office stagnation
- Back office workflow
- Pragmatic problems
- Strategic inaction

Oddly enough, no data problems since data was so inaccessible

Never propagated nor mutated

Financial Service Provider Cultural aspects



First attempt to architect IT to support the business

- Started with Business Pilot workshop to set up a plan
- Deep dive into Business Operations
 Modeled and simulated the back office process
- Created architecture guidelines and business recommendations

Strongly recommended hiring experienced service teams to craft an architecture and assist in initial deployment

Tell me your Modernization Objectives



"Increase departmental productivity, boost overall efficiencies, and simplify our processes"

Consistency, repeatability, scalability

- Focus on right things, not just easy or well understood factors
- Document and leverage for SOX compliance
- Move beyond organically growing current sales and operations models
- Simplify complex business rules and sale variations cause downstream problems

Drivers

- Ad hoc fixes and enhancements made everything worse
- Compliance and fiscal transparency are needed for an IPO
- Implementation of new sales models cannot be done on current systems
- Customer satisfaction vs. contract consistency

Tell me your Modernization Objectives



Efficiency

- Refocus high value people
- Reduce learning curve; less expensive resources
- Management by exception

Drivers

- Employee burnout
- Tribal lore
- Everything was an exception

Interview Feedback



- What you said
- What we heard
- What we didn't hear
- Undercurrents



Tell me your Modernization Objectives



Agility

- Virtualize business models to be independent of the underlying technology
- Allow change without breaking what works or forcing endless internal collaboration
- Future proof infrastructure to support agility plus NFRs
- Address and enable agility and innovation

Drivers

- Point to point integration is inflexible and unmaintainable
- Lack of architectural model to underlay updates
- How do you measure agility?

Look at People, Process and Technology



Common themes

- Universal understanding of business information
- Focused on Process definition
 - Automate to provide consistency and repeatability
 - Streamline operations

Business people

- Increase revenue and scale the business
- Growth not matched by back office capabilities
 - Lack of streamlining and rules close to the decision point
- Point applications aren't robust or scalable
- Provide business intelligence

Technology people

- Reduce fragile application dependencies
- Resolve data inaccessibility

Common Requests from Business



Business intelligence based on customer, invoicing, behavior, etc.

One version of the truth

- Define your customer?
- Define customer satisfaction?
- How well is the business doing?

What happens if your orders double next month?

So we ran a simulation...



Common themes from Technologists



One version of the truth

- Data exists
- High touch to generate reports

Tribal knowledge

Point to point application integration scripts

High touch for Sales Operations

Every order is manually verified several times

Fix the symptom or fix the problem?

What we didn't hear



Think beyond current pain points

- New sales models and entry points
- Enable a new strategy

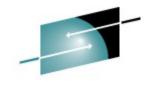
Capture the market

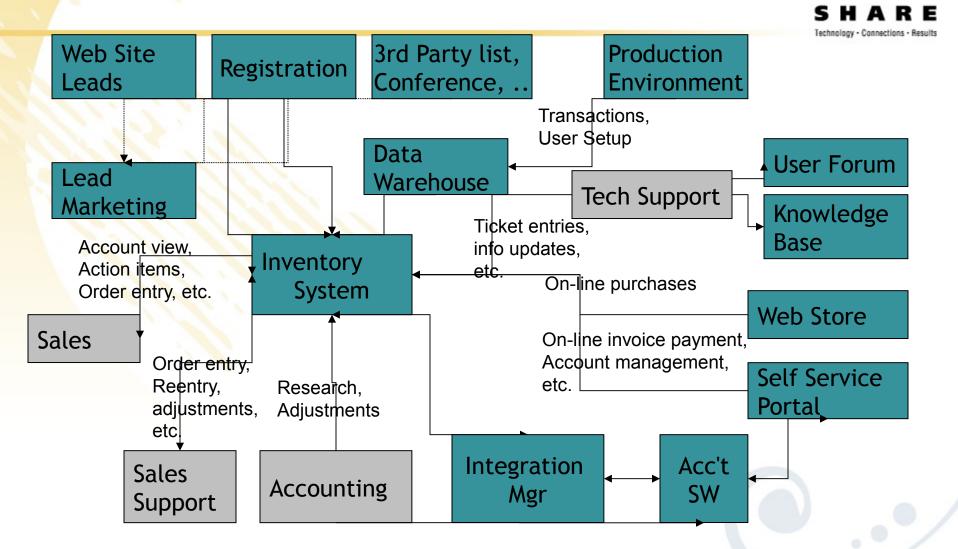
- Where is your innovation strategy?
- Think about business reengineering

Metrics tell you where to focus

- Baseline info on process, people and technology
- Measure Business benefit
- Measure back office optimization
- Understand and prioritize improvements, measure the success

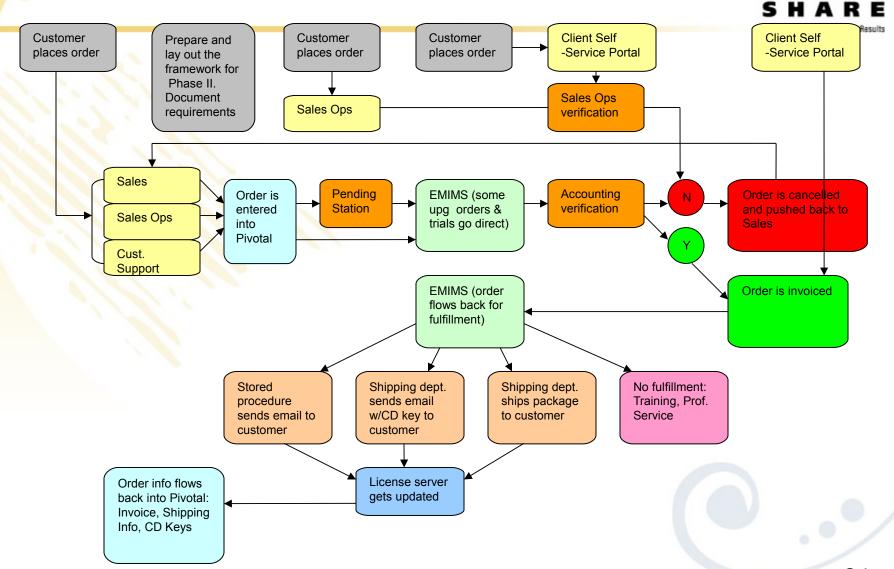
Today's Back Office view



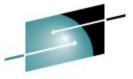


Modeled view of Contract Approval Process



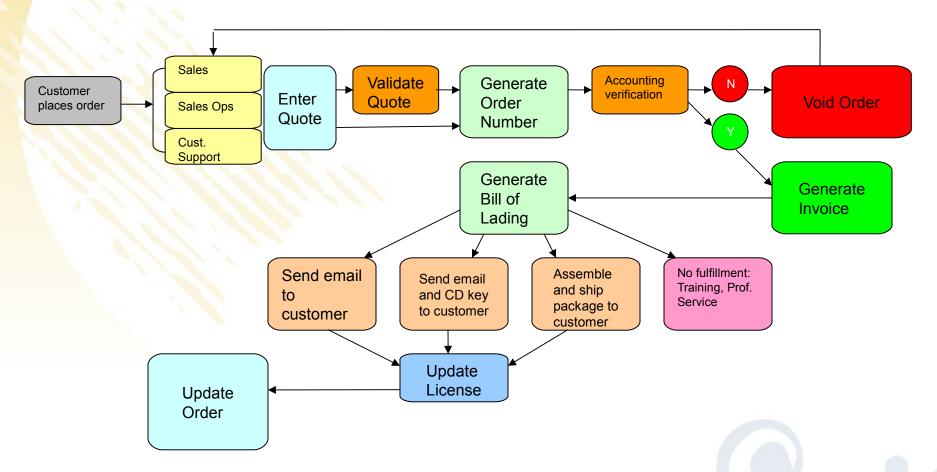


Think of tasks, not apps or technology



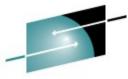
and flexible choreography of those services s

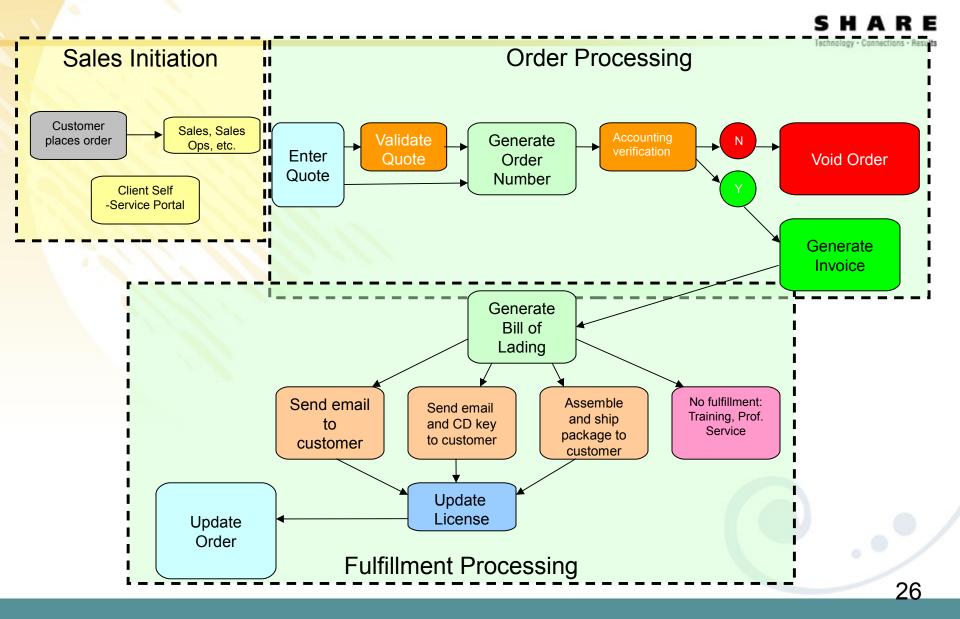
SHARE



these can become loosely-coupled business service components

Abstract to functional descriptions





Recommendations



Low hanging fruit for a quick win

- Replace bastardized inventory software with Salesforce.com
 Pragmatic
- Automate the back office and document decision points
 Strategic
 - Leverage an SOA design and implementation; prepare for Cloud
 - Offer desktop solution as SaaS
 - Offer industry tools as predefined services

Cultural

- Standardize and Govern the sales process
- Think BIG: Small company culture / methodologies can't scale

Back to My Check List



Do they have both technical and business skills?

- No experience with SOA or process improvement
- Hired a business analyst

If they do this without help, what are the odds of success?

Low, due to highly stressed environment

Will the sponsor still be employed after the 1st phase? Maybe, since the senior management team is tight knit

Is the tooling multi-vendor?

Disconnect, as they are traditionally a .net shop

LoB involvement?

Small shop, good communication and agreement on objectives

Back to My Check List



What is the Catalyst driving the SOA effort?

Couldn't grow the business due to back office constraints

Who owns the funding and how wide is sponsor's realm?

VP owns all infrastructure technology across the company

Is it possible to declare success quickly?

Even small improvements will have impact

Nothing in Back office to save expect data

Can this be successful? Is this a good idea or not? Yes, but... Risk is very high!

Would you have made the same choices?



Strategic

Move from .net to java on WebSphere platform

Funding

Wait for salesforce.com implementation to request funds

Skills

Rely on in house talent to design and build the new architecture

Expectations

Deliver everything in one year

What actually happened?



VP and his business case

- Early wins
- Early failures

IT department

First phase of design and implementation

Development, tooling and skills

What actually happened?



And when it was done 3 years later... the CEO said

"Resounding success for a broad IT initiative"

Roll the Clock forward



Transition to Saleforce.com from homegrown systems

- Complete in less than one year
- Success!

Data migration

- Informatica solution
- 3 years later
- Success!

Front Office Overhaul



SaaS offering based on their existing automation offering

- Easy transition for customers
- New sales models
- Profitable!
 - Enterprise licenses up 20%
 - Revenue up over 30% by quarter
 - Up nearly 50% the following year
 - Upsell added 15%
- SaaS licenses tripled the second year

Front Office Overhaul



IPO 5 years later

- Profitable even after the financial market collapse
- IT overhaul was an opportunity
 - Fashion a new sales model
 - Reconcile financial reporting

Observation: Make it Easy for Customers to do Business



IT modernization was an essential step

- Catalyst for core changes
- Efficiency in the back office mirrors their software offering

Modernizing their desktop offering as a SaaS was extremely profitable

Conversion of industry tools to consumable services was never done

Some of the early pain was predictable and avoidable

When venturing into new territory, get help

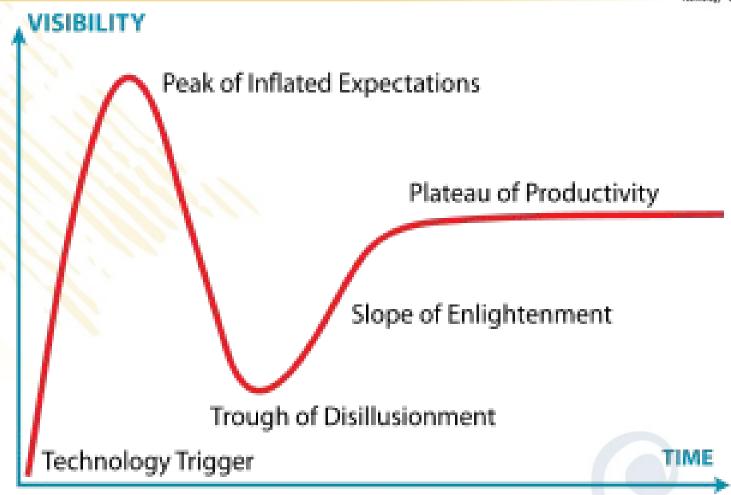
Why does this Happen?





Gartner Hype Cycle





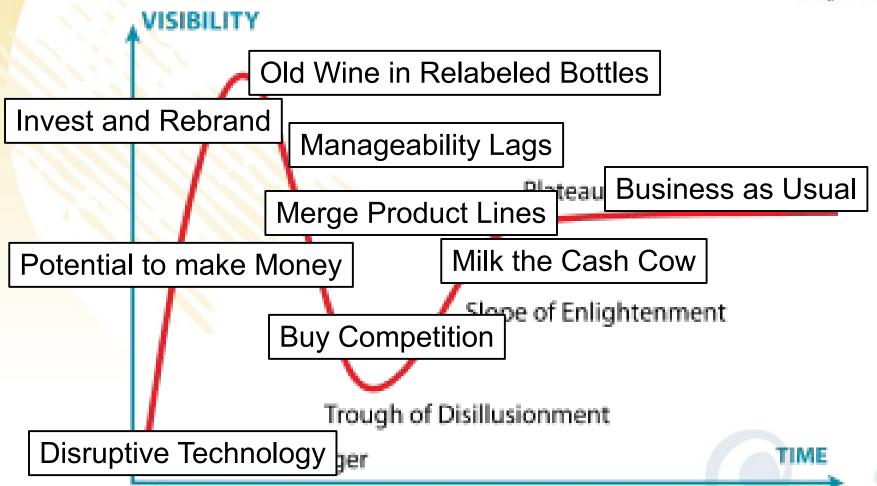
CEO View of Hype Cycle





Vendor's View Hype Cycle





Knowledge Hype Cycle



