

Net-Centric or Not Possible

Service Oriented Architectures

For

Satellite Ground

SOA for Satellite Ground

- There was a movement to Service Oriented Architectures (SOA) for the advertised benefits: eg. Information Sharing, Collaboration, Software re-use increased value from business processes and information
- A major re-architecting process is terribly expensive and unlikely to succeed without:
 - A complete understanding of the business objectives
 - Measurable criteria for progress and success
 - Commitment and sponsorship from ALL levels of the organization
- Initial expense may be recovered in the re-use and wider use of existing processes, software and products
 - Know what you have (repeated processes, data sources software)
 - Know where they can be usefully shared
 - Force re-use and cut expenses with no longer needed legacy systems
- Start small, cultivate and reward the culture change

SOA is not a purchasable commodity
It is a different way of thinking about the business

SOA for Satellite Ground

- Learn from the successes and especially from failure before continuing
- Few paths to success, many highways to failure
- Sharp thinking and strategic planning are much more important than technology
- Savings, through re-use and smarter use, are in the out-years only

SOA is not a solution. It is a set of technologies that can support
Well defined, agile Concepts of Operation for
aligning business operations and goals

SOA for Satellite Ground

- Success Paths
 - Invested in Education
 - Encouraged the right people
 - Understood their requirements and the business case
 - Moved toward SOA driven from the top & supported in the middle
 - A proof of concept was leveraged to validate success
- Failure Highways
 - SOA as a PROJECT vs. the holistic notions
 - Second tier talent
 - Under resourced the effort
 - Vendor driven solutions
 - Requirements not fully gathered nor well understood

Manage expectations! > 75% fail first attempt
> 50% show no value until the third attempt