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