

SOA Reference

BAE Systems – Land Systems

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Extending Customer Innovation Beyond the Enterprise

QUICK FACTS

BAE Systems – Land Systems

- Location: Worldwide
- Industry: Aerospace & Defense
- Products and Services: Military Vehicles, Weapons and Armaments
- Revenue: £500M
- Employees: 4000+
- Web Site: www.baesystems.com
- SAP Solutions: Business Suite 2005 and NetWeaver Composition Environment 7.1

“Productized SOA delivered by SAP and implemented by CompriseIT, has allowed us to quickly build flexible composites on top of our SAP ERP investment, enabling faster migration to a central ERP platform following our extensive mergers and acquisition”

Andrew Brown
Business Systems Manager
BAE Systems

Challenges and Opportunities

- Different Processes for Customer Innovation and change management used across the organisation.
- Fixed Contractual forms required within the process.
- Potentially complex modifications require tight project management.
- Large number of stakeholders in the process

Objectives

- Allow easy process across enterprise boundaries for modification requests
- Deliver a simple core process that allow platform variations
- Support Standard Forms set

Implementation Highlights

- “Wizard Driven” Task authorisations
- Cross organisation authorisations
- Automatic generation of forms using Adobe
- Simple front-end used to create back-end business objects

Why CompriseIT and SOA

- SOA enabled fast prototyping of the solution to ensure business alignment
- NetWeaver CE allowed SAP ERP to be extended easily outside the company
- Model driven tools allowed agile development and easier support
- Able to leverage existing investment in ERP backend

Benefits

- Time to approve modifications reduced
- Automatic Generation of forms reduces processing time
- Wizards reduce training requirements
- Visibility of modification status increases customer satisfaction
- Common process allows movement of resources between platforms
- On-line approval reduces cycle times
- Flexible architecture enables process changes to be quickly realised

BAE SYSTEMS



Reduction of Through Life Costs – Increased Customer Collaboration : BAE Systems - Defense

Change in Defense

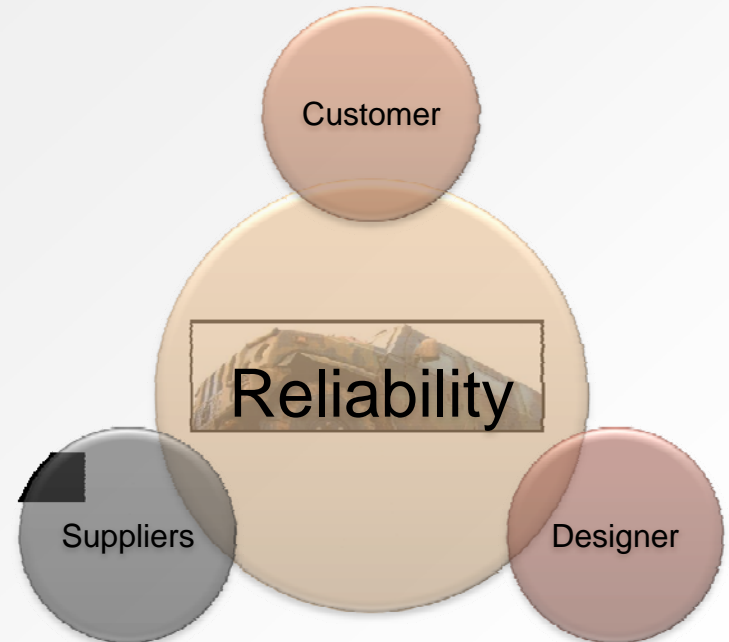
- From break fix support to reliability based support
- Complex supply chains that are required to support more complex equipment



Business Strategy / Initiative

- Focus on reducing through life costs by increasing equipment reliability
- Work in collaboration with the customer to ensure reduced failure rates

Collaboration and Co-Innovation



SOA Value Delivered

- Extend customer innovation process outside the enterprise
- Ensure contract compliance
- Quickly adapt business processes at the pace of the business
- Leverage existing investments and allow flexibility across platforms

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Change in Aerospace & Defense

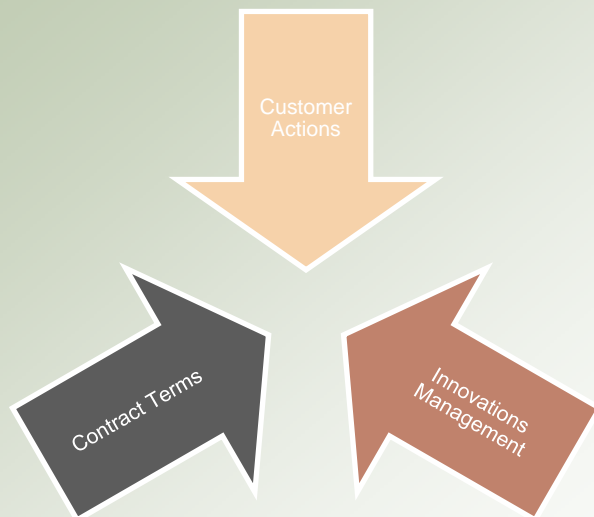
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Business Change in Aerospace & Defense

Business Initiatives

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- Work in collaboration with the customer to ensure reduced failure rates

Before Manual Processes



After Innovation Beyond the Enterprise

Task Set Up

Step	Customer	Customer	Originator	Manager	Engineer	Engineer
Step	Task Generation Form (Paper)	Task Generation Form (email)	Task Generation Form (Portal)	Accept Task and Transfer Data	Set Up Task (Based on Template)	Release Task To Stage 1
Functional	Allow Manual Offline capture of Tasks	Allow Offline capture of Task	Portal screens that capture data from the Task Generation form	Manager reviews Task Information and Accepts the Task	Create Task as objects within SAP	Release to the Stage 1
Technical		Adobe Form to capture data	Using VC to create Guided Task. First task in Guided Procedure	Able to accept the task or return to Admin for further information	Create a Notification and Project based on a template	GP step to release to Engineer
Technology			Portal GP VC	Portal GP VC	Portal GP VC WD(J)	Portal GP VC
Business Applications			SAP ERP		SAP ERP	SAP ERP

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Additional Benefits

- Common Technology Platforms used by other projects
- Easier to operate and reduced training
- Agile methods allow incremental value based delivery
- Productized services allow easy adoption of SOA

Architecture View

