

The Business Value of Virtual Service-Oriented Grids: Strategic Insights for Enterprise Decision Makers

Preface

- A Bit of History
- An Industry Example
- What's in Store in This Book

Chapter 1 The Emergence of Virtual Service Oriented Grids

- Other People's Money versus Other People's Systems
- Virtualization, Service Orientation, and Grids
 - About Grids
 - Grids: A Physical Description
 - Virtualization
 - Service Orientation
 - Virtualization + Service orientation + Grids = Virtual Service Oriented Grids
 - Laptop Loss Management Service Revisited
 - Structure of Virtual Service Oriented Grids
- End Points for Virtual Service Oriented Grids

Chapter 2 Virtual Service Oriented Grid Convergence

- Capability, Process, and Maturity in Business Transformation
 - A Rhetorical Question
 - The Internet Age
 - About X-Engineering
- From Silos to Networks
 - On the Need for Solution Stacks
 - The Merging of Silos and Rise of Collaboration
- The Economics of Service Orientation
- Scalability of Service Oriented Architecture
 - The Initial Siloed State
 - Inside-out or Conventional SOA
 - Outside-in SOA: SOA for Small and Medium Businesses
 - Key Hurdles for Outside-in SOA
 - Example: An Outside-in Managed Services Provider

Chapter 3 Virtual Service Oriented Grid Environment and Architecture

- Technology Development in a Federated Environment
 - A Historical Perspective of Federated Technology Development
 - Federated Technology Development Today
 - Governance in a Federated Environment
- Composite Usage Models
 - A Layered Framework for Usage Models
 - Applying the Composite Usage Model to VSGs
- The Virtualization Continuum in VSGs
 - Balanced Grid Architecture: Architecting Computers for Performance

Chapter 4 Building Blocks for Virtual Service Oriented Grids

- Virtualization
 - Virtualization Usage Models
- Service Orientation
 - Service Oriented Architectural Tenets

- Services Needed for Virtual Service Oriented Grids
- Grid Computing
 - Types of Grids
 - Challenges
- Building the Road Toward Virtual Service Oriented Grids

Chapter 5 Industry Standards and Consortia

- Evolution of Standardization
- Standard Consortia Landscape
- Domains of Standards and Their Relationships
- Trends and Challenges for the Development of Standards

Chapter 6 Planning for a Virtual Service Oriented Grid Infrastructure

- The Commoditization of the Data Center
- The Next Generation of Enterprise Computing
- Virtualization in the Utility Computing Infrastructure
- The Gartner Maturity Model
- From Virtual Servers to a Virtual Infrastructure
- From Centralized to Decentralized Virtual Data Centers
- Service Orientation in the Computing Infrastructure
 - The SOI Framework
 - Hardware as a Service (HaaS)
 - Service-oriented Engineering Challenges of SOI
- Scalability of Service Orientation

Chapter 7 Case Studies for Deploying Virtual Service-Oriented Grids

- Delivering IT Services to the Home
- Laptop Loss Management Service Revisited, Once More
 - Methodology for Addressing the Stolen Laptop Problem
 - Consumer-Facilitated Storage in an Virtual Service Oriented Grid Environment
- Virtual Service Oriented Grids in the Electrical Power Industry
- Virtual Service Oriented Grids in the Financial Services Industry

Chapter 8 Virtual Service Oriented Grid Strategies: Steps Toward the Future

- Toward a Virtual Service Oriented Grid National Strategy
 - A Maturity Model for the Adoption of Virtual Service Oriented Grids
 - A Prescription for Virtual Service Oriented Grid Adoption
 - A Dose of Realism
- Building a Virtual Service Oriented Grid Corporate Strategy
- Virtual Service Oriented Grid Strategy for Small Businesses

Chapter 9 Epilog

- The Future of Virtual Service Oriented Grids