VP Product Development
Vmware and SpringSource Projects on OSGi
Agenda

• VMware Use of OSGI
• Business Benefits
• Challenges
• Takeaways
VMware use of OSGI

- Spring DM
- Eclipse Virgo /SpringSource dm Server
- Spring Roo
- In development:
  - Cloud Service Director
  - Platform UI
  - …
Virgo/ dm Server Use Cases

• On line gaming
• Networking systems
• Health services lab management
• Software development research
• Enterprise software development
Business Benefits

• Improved modularity
• Improved dependency management
• Reduced footprint
• Architectural clarity
Business Benefit: Improved Modularity

- Modular software development
- Approach to managing complexity for large-scale software projects
Business Benefit: Improved Dependency Management

• Java class loader requires dependencies on other software components embedded in War file can result can be very large WAR files

• Linear class path does not support multiple versions of same library

• Simpler to package native code in bundles
Business Benefit: Reduced Footprint

• Dynamic loading and unloading of modules can reduce use of memory
• Benefits embedded scenarios
Business Benefit:
Architectural Clarity

• Architectural design blocks map to OSGI modules
• This consistency carries through to the code
• Relationship apparent at runtime
• Facilitates communication between architect, apps developers and ops team
Challenges

• Infrastructure (bundle repository, build systems and app tooling)
  – Ubiquity needed in order to drive growth of ecosystem
  – Ecosystem growth will drive infrastructure build out
Takeaways

• Continued traction with early adopters in, large and high performance systems, OEM, and embedded scenarios

• Infrastructure remains the biggest challenge

• VMware/SpringSource move to open source (Virgo) and EPL license has facilitated community development and vendor collaboration