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**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