Edited by XU Product Architecture Knowledge Transfer

PROJECT NAME / SUBJECT:	**SAP JVM**
SPONSOR/PROJECT INITIATOR:	SAP JVM team
PROGRAM/PROJECT LEAD:	THOMAS SMITS/GUIDO DERWAND
LEAD ARCHITECT:	N/A
DEVELOPMENT:	☑ SAPLabs, mainly in Walldorf ☐ Partner/ISV _____

I. MARKET AND PRODUCT BACKGROUND

Planned product release date: SAP NetWeaver New York City timeframe

Underlying SAP NetWeaver release: SAP NetWeaver New York City

Used SAP NetWeaver stacks: ☐ ABAP   ☑ J2EE

Target platform (OS, DB):

Platforms	Linux	Windows	Solaris	HP-UX	AIX	OS/400
x86_64	✔	✔	✔			
IA32	✔	✔				
IA64	✔	✔		✔		
PowerPC	✔				✔	✔
PA-RISC				✔		
zSeries	✔					
Sparc			✔			

Targeted market segments / sub-segments:
- All segments targeted by SAP's Java stack.

Use cases targeted by the product:
- all use cases were Java is involved:
- all use cases targeted by SAP's Java stack

Strategic goals SAP wants to achieve with the product:
- Independence from Java VM vendors
- Robustness
- Supportability
- Inhouse development effectiveness

Mandatory product capabilities to address goals, use cases and target market:
- Same behaviour on all OS & hardware platforms
- Faster failover in comparison with 3rd party VMs (copy-only Shared Closures)
- More flexible debugging in comparison with 3rd party VMs (Debugging on Demand)
- Increased runtime monitoring capabilities in comparison with 3rd party VMs
  (gc statistics, extended stack trace, deadlock tracing etc)
- Increased memory and performance profiling capabilities in comparison with 3rd party VMs

II. ARCHITECTURE

For further details and information see: SAP Virtual Machine Container Homepage
(http://vmcontainer.wdf.sap.corp:1080/)