

WebSphere Application Server Architecture

A Solution Component for Mission-Critical Application Environments

Problem:

Businesses are faced with the challenge of delivering mission-critical Java and J2EE applications and services to their customers with predictable performance, stability, and security. The performance of application server infrastructure is determined by many variables beyond the capacity and characteristics of the server hardware. These other variables include: application design, application inter-connectivity, data sources, network architecture, and security infrastructure. Java and J2EE applications are often connected to many other information technology services; therefore it is absolutely critical to identify all weaknesses in the technology infrastructure and the path to remediation of these issues. As core business services, it is also critical to identify gaps in the non-technical environment in areas such as regulatory compliance and operational support structure.

Solution:

MSI Systems Integrators helps customers design or retrofit sustainable application server environments by providing architectural assessments of the complete information technology environment where WebSphere Application Server is concerned.

MSI Approach:

- Evaluate the client's hardware and software assets to support WSAD or RAD 6
- Explore existing and alternative deployment models to deliver results
- Document the impact on and to network architecture
- Design monitoring facilities
- Examine application development practices and offer a proven team unified process
- Understand the client's future technology initiatives and discuss the technical and non-technical opportunities on the horizon
- Conduct requirements workshops to optimize your design and construction plans

Justification:

Java application servers are increasingly the foundation of enterprise systems, whether purchased or custom-developed. As the foundation, the health and well being of enterprise systems is fundamentally dependent on a sound and reliable application server infrastructure. Each year, IT divisions are under more pressure to provide greater levels of service, reliability, and security for less money – and to do so faster than the year before. Just as buying more cars will not help you win a race, the old model of “buying more boxes” is neither a sustainable or effective practice to remediate most application performance issues. More complex applications require more complex IT environments, which leads to more points for something to go wrong and greater project duration. The reality of technology-dependent businesses and organizations today is that security must be integral to the environment, and security through obscurity is no security at all. There are no magic bullets to solve all the security related issues facing companies today. Utilizing a standard technology solution set can significantly reduce the risk by offering a stable and secure application environment. MSI System Integrators will work with your subject matter experts to understand the root causes of your pain points and develop alternatives that are rooted in the reality of your business to reduce the impact of these issues.

The Next Step:

MSI Systems Integrators invites you to schedule a briefing at our Technology Enablement Center or your office. This briefing will include discussions of your technology and business motivators as well as discussions of how WebSphere technologies can provide short-term tactical and long-term strategic benefits to your organization.