

Tmax **JEUS**

TMAXSOFT

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This document may change depending on the developer's circumstances.

JEUS

Java Enterprise User Solution

JEUS is a web application server (WAS) that provides various services required for a web environment, serving as a platform where applications can be developed, operated, and implemented. JEUS is J2EE1.4, Java EE 5, Java EE 6, Java EE 7 certified commercial software, getting global recognition for its technology.

JEUS 8 offers greatly improved features, including support for Java EE 7, high-volume transactions, and cloud computing. It fulfills market requirements for both development and operation. Moreover, it has implemented the full Java EE 7 specification and a partial Java EE 8 specification, resulting in significantly enhanced performance, scalability, and development productivity.

WHY JEUS

Introducing the No.1 solution in the Korean market for its stability and innovative technology

JEUS, a Java EE 5, 6 and 7 certified leading solution, has consistently secured TmaxSoft a place in Gartner's Magic Quadrant for six consecutive years, earning the global recognition for its exceptional technologies and superiority.



Stability and Innovative Technology

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Java EE 5, 6, and 7 Certified

JEUS is at the forefront of the global standard with Java EE 5 (JEUS 6), EE 6 (JEUS 7), and EE 7 (JEUS 8) certifications.



Listed in Gartner Magic Quadrant.

TmaxSoft is listed in Gartner Magic Quadrant, getting recognized worldwide for its excellent technologies. It is expanding the business to overseas market by securing customers in Japan and the U.S., and is actively participating in various projects.



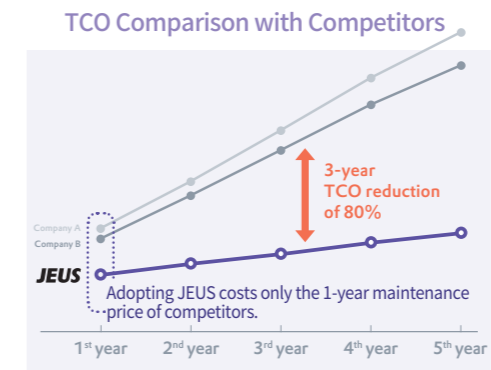
Excellent High-Volume Web Transactions

Through its integration with WebtoB, Jeus supports dynamic load balancing, ensuring exceptional performance even when handling extensive data processing.

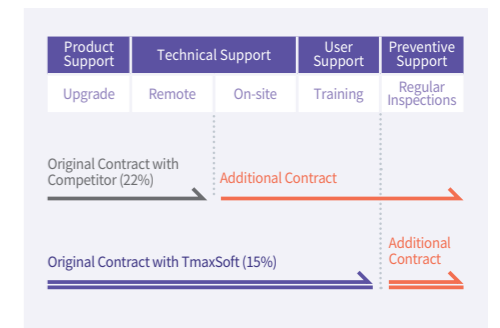
Strength

Groundbreaking TCO Reduction

By adopting JEUS, users can experience a significant reduction in total cost of ownership (TCO). In the first three years of ownership, JEUS offered up to 80% lower TCO than its competitors.

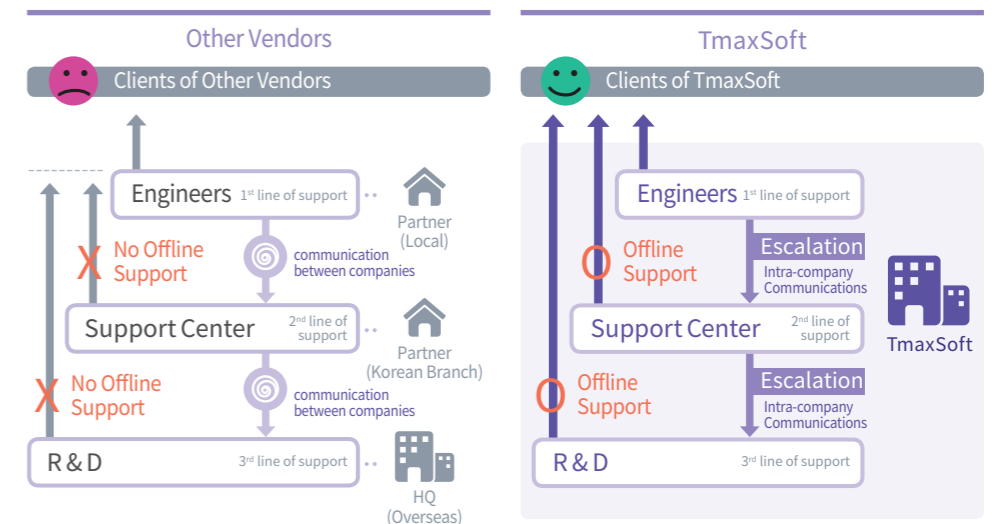


※ Reduction in TCO varies depending on hardware CPU. (TCO reduction ranges from 50% to 80% over a 3-year period)



One-stop Service Differentiated from Competitors

We provide immediate and efficient technical support through our well-structured three-step support system. Leveraging our proprietary technology that sets us apart from competitors, we deliver an extensive range of services for developing and supporting project-specific features.

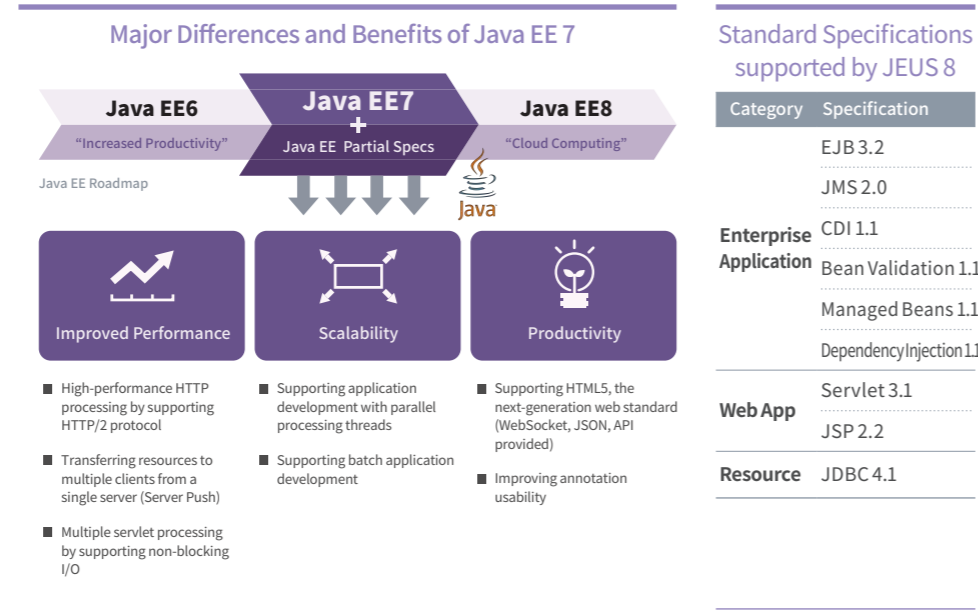


Differentiate Services	Offline technical support provided by our Research and Development team	Swift and comprehensive technical support	A unified internal communication channel for issue handling
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Strength

Java EE 7 Full Specification

JEUS 8 supports the full specification of Java EE 7 and a part of the Java EE 8 specification (HTTP/2). JEUS 8 includes Servlet 3.1, EJB 3.2 and other standard specifications for improved performance, scalability and development productivity.



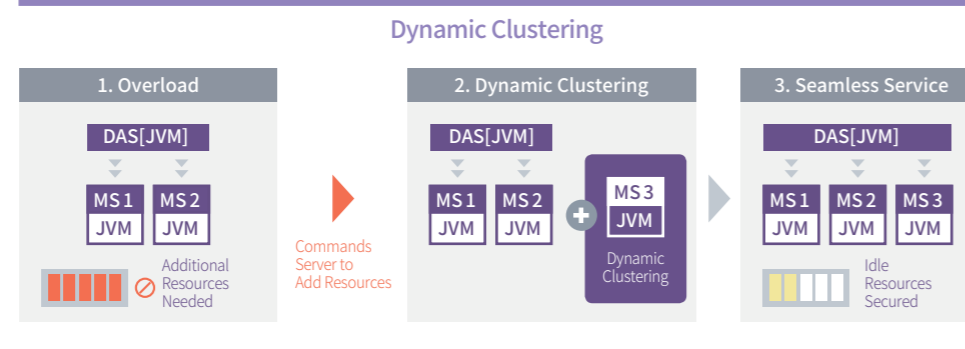
Optimized for Cloud Environment

Domain Architecture

By introducing an architecture that operates and manages domain-based services, JEUS provides a cloud-based environment with improved performance, usability and scalability.

Dynamic Clustering

Dynamic clustering based on the domain architecture is the core technology that supports rapid elasticity, which is required for cloud computing.



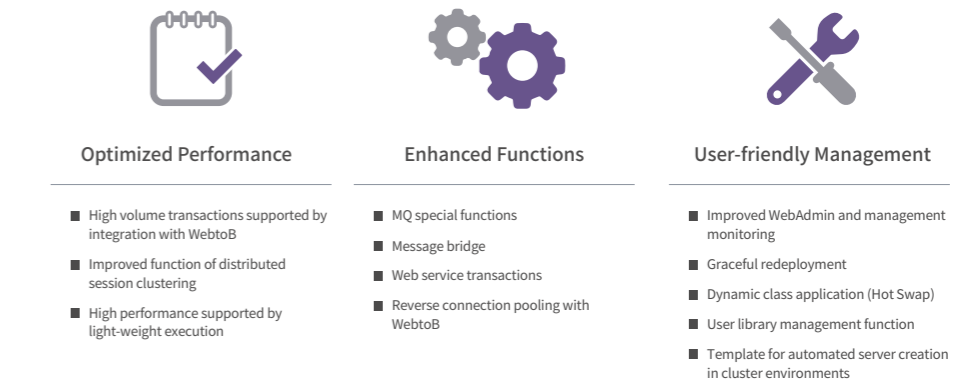
Graceful Redeployment

JEUS ensures a seamless service environment, allowing newly deployed applications process services without causing downtime in currently operational applications.

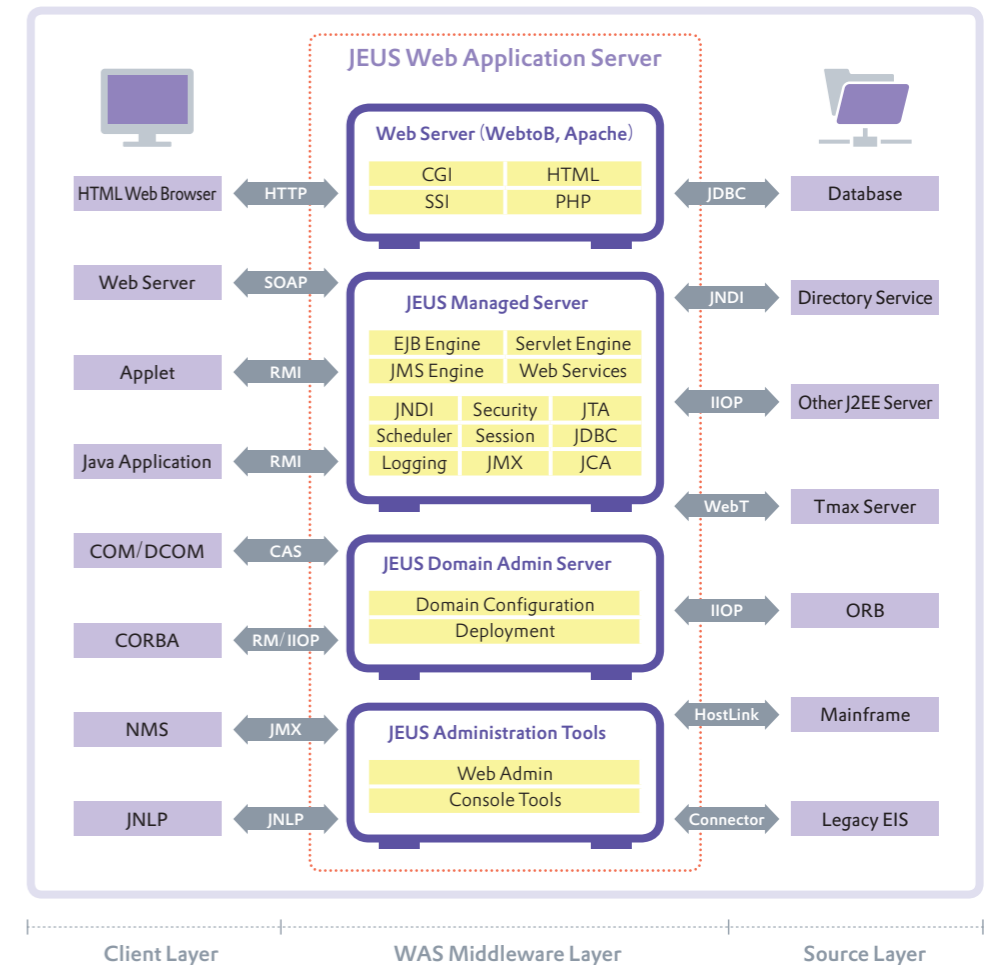
Strength

Optimized Functions

Various functions, including high-volume transactions and distributed session clustering, have been enhanced and optimized. Additionally, manageability has been improved through dynamic class application (Hot Swap) and WebAdmin.



JEUS Architecture



Key Features

Standards Compliance

Java EE 7 Standard Compliance

JEUS supports the most recent standard specifications, including servlet 3.1 and EJB 3.2, and complies with the latest programming techniques such as WebSocket and JSON API. Through standardized development methods and improved usability of annotation, it ensures high productivity by reducing the amount of code developers need to write.

High Availability and Stability

Domain Architecture

The domain architecture operates and manages services through domains, allowing dynamic expansion in large-scale environments like the cloud. This approach significantly enhances performance by reducing overhead for server management. Management is unified by separating the related functions from service functions, improving usability.

Dynamic Clustering

Based on the domain architecture, clusters can be configured dynamically according to application and system changes, enhancing flexibility and scalability.

High Performance

Mass Transactions

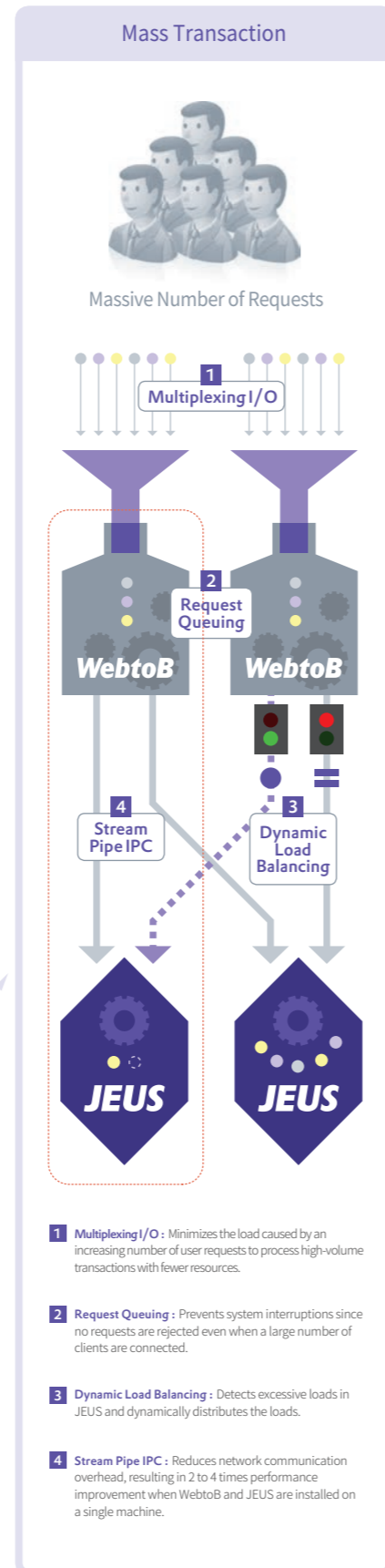
By integrating with WebtoB, the TmaxSoft web server, JEUS provides high performance when processing big data with the differentiated architecture and technologies.

Distributed Session Clustering

Cluster functions have been improved by minimizing health-checks and synchronizations, which may occur continuously between Master and Backup session servers, and by applying new communication methods.

Light Weight

All engine functions are included in the server so the production environment may become heavy. JEUS adopts the light-weight execution method, which makes unused engines lazy.



Key Features

Features & Convenience

Zero-downtime Deployment

When an application is changed and needs to be redeployed during operation, the services connected to the previous application will be processed without interruption, and requests after the change will be processed by the new application without downtime.

Hot Swap

JEUS allows for dynamic changes of classes, enabling the redefinition of Java classes without reloading the class loader by using the JDK instrumentation package. This feature streamlines the build and deployment processes in the conventional Java EE development lifecycle, supporting rapid test and, consequently, shortening the overall development cycle.

WebAdmin

The user experience has been maximized to facilitate the management of the domain-based JEUS system. Accessibility to the system has been significantly enhanced through improvements in the user interface (UI) design, navigation structure, and overall performance.



GUI-based Real-time Monitoring

The GUI-based real-time monitoring, which is on par with Application Performance Monitoring (APM), is provided to improve the user experience environment.

Specialized Message Queue (MQ) Functions

Various business requirements can be effectively implemented by guaranteeing message order and supporting message sorting, which are not supported in the JMS standard specification.

Message Bridge

The message bridge connects two different message queues (JMS Servers), improving interoperability and flexibility between systems within a company.

Web Service Transaction

WS-Coordination and WS-Atomic Transaction, which are OASIS web service standards, are supported to enable heterogeneous transactions.

Reverse Connection Pooling

Reverse connection pooling allows a connection between JEUS and WebtoB to be established without opening a port on the firewall for communication between the web server and WAS, supporting the highest-level security.

※ For more details and Q&A about the TmaxSoft products, visit <http://technet.tmax.co.kr> and check the product information section.
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