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W E B t o B

# A web server for reliable web system development

WebtoB is a next generation web server that overcomes the structural problems of existing web servers to provide superior performance and reliability

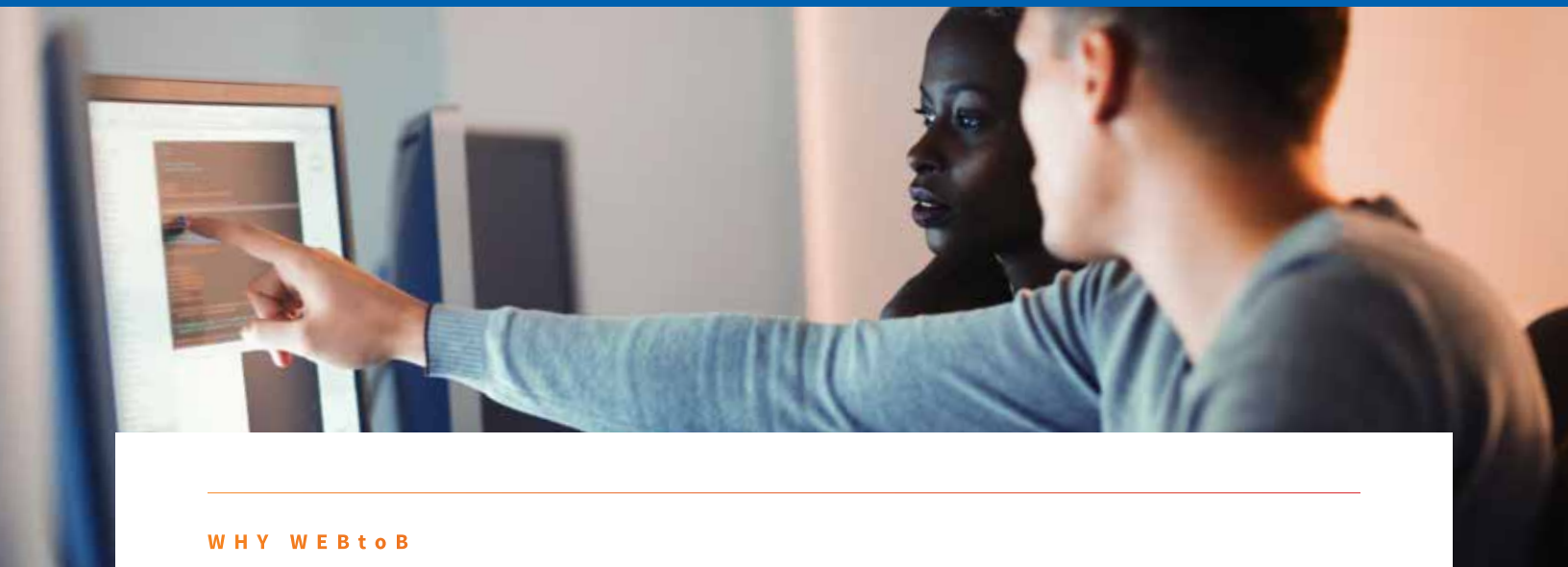


**TmaxSoft**

# WEBtoB

## A web server for reliable web system development

WebtoB is a web server that processes HTTP requests to provide web pages for users. It offers superior performance and stability by overcoming the structural problems of existing web servers. It is designed to provide reliable service when receiving a large volume of transaction requests. Error conditions, such as processing delays and server shutdown, can be effectively managed using WebtoB.



### WHY WEBtoB

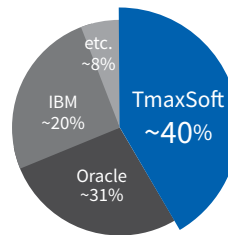
## WebtoB's competitiveness. Reliability and technology of a market-leading solution.

WebtoB is a solution that provides optimal reliability and technology and is employed by a multitude of companies in Korea. With approximately 2,200 cumulative customers, WebtoB is the domestic market share leader.



### WebtoB Selected Over IBM or Oracle for Middleware

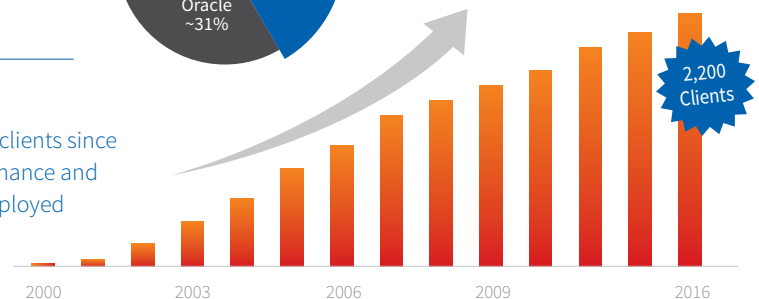
In the competitive Korean market, WebtoB has higher marketshares of the middleware market than IBM or Oracle.



### Approximately 2,200 Clients

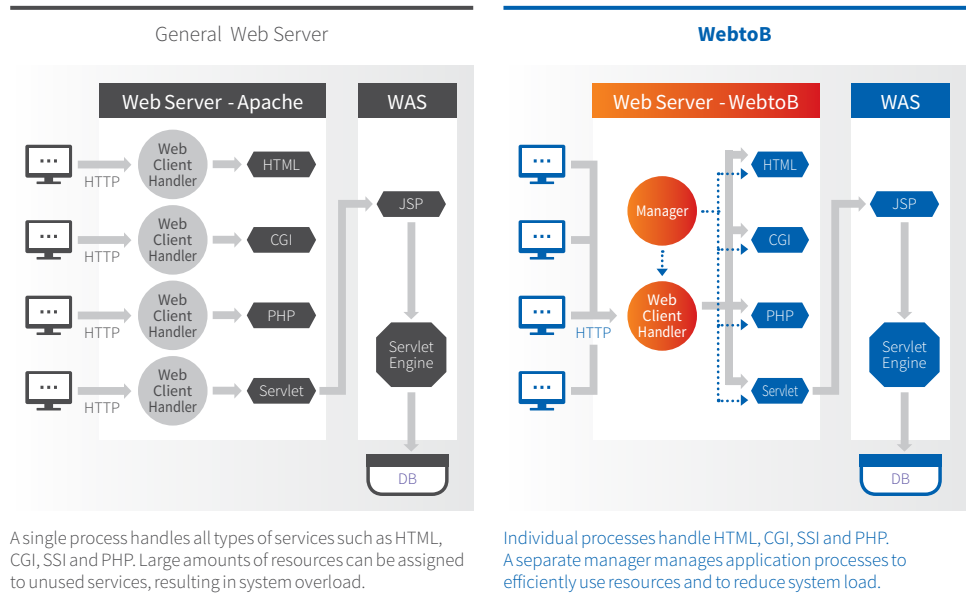
WebtoB has accumulated over 2,200 total clients since its release in 2000. It has proven its performance and reliability as a market-leading solution employed by a multitude of companies.

(as of Dec. 2014)



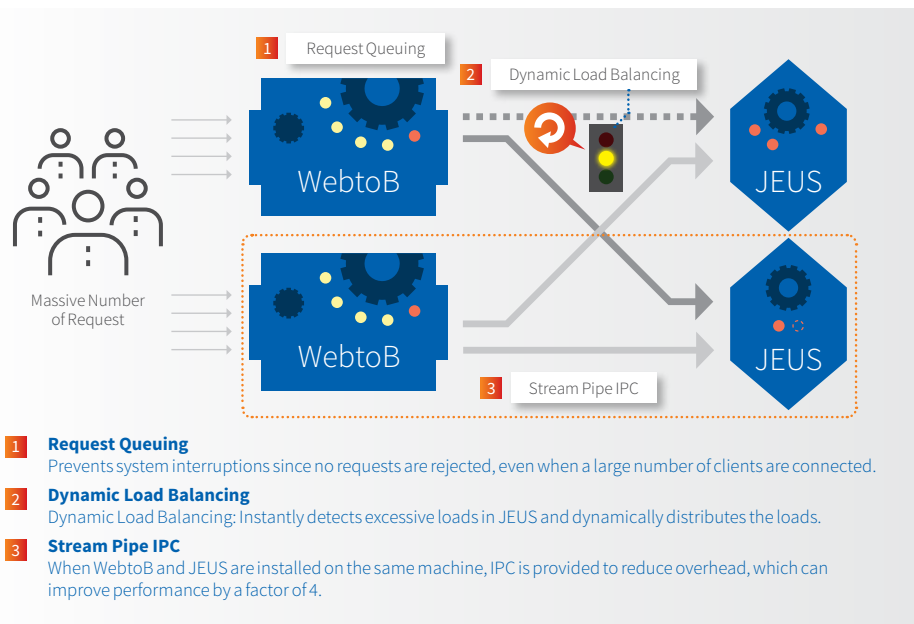
## Superior architecture—superior reliability

WebtoB's superior architecture allows it to optimize load distribution. Unlike Apache-based general web servers, WebtoB employs a separate manager to manage application processes, which allows WebtoB to use server resources more efficiently and to lower system load for large volumes of transaction requests.



## JEUS and WebtoB synergy for unrivaled performance and reliability

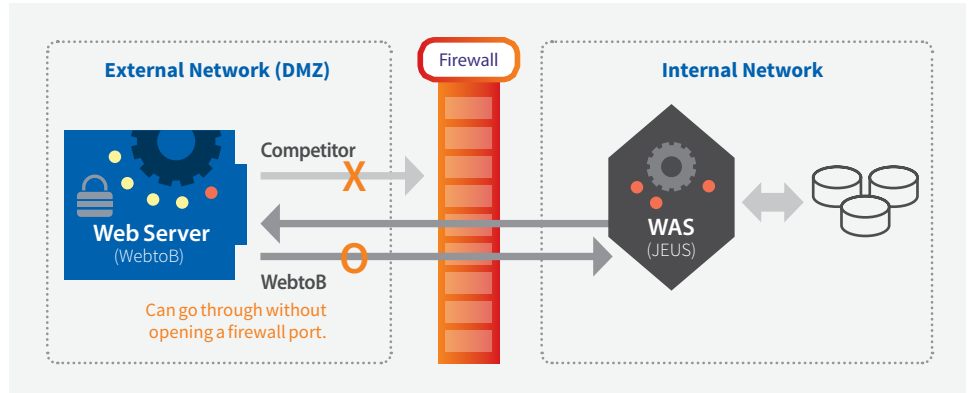
WebtoB provides unrivaled performance and reliability through its integration with JEUS, TmaxSoft's Web Application Server. To ensure reliability, it incorporates a queue, which can store a large number of client requests, so that JEUS system operations are not interrupted. Seamless connections with JEUS allows WebtoB to instantly detect excessive loads in JEUS and dynamically distribute the loads.





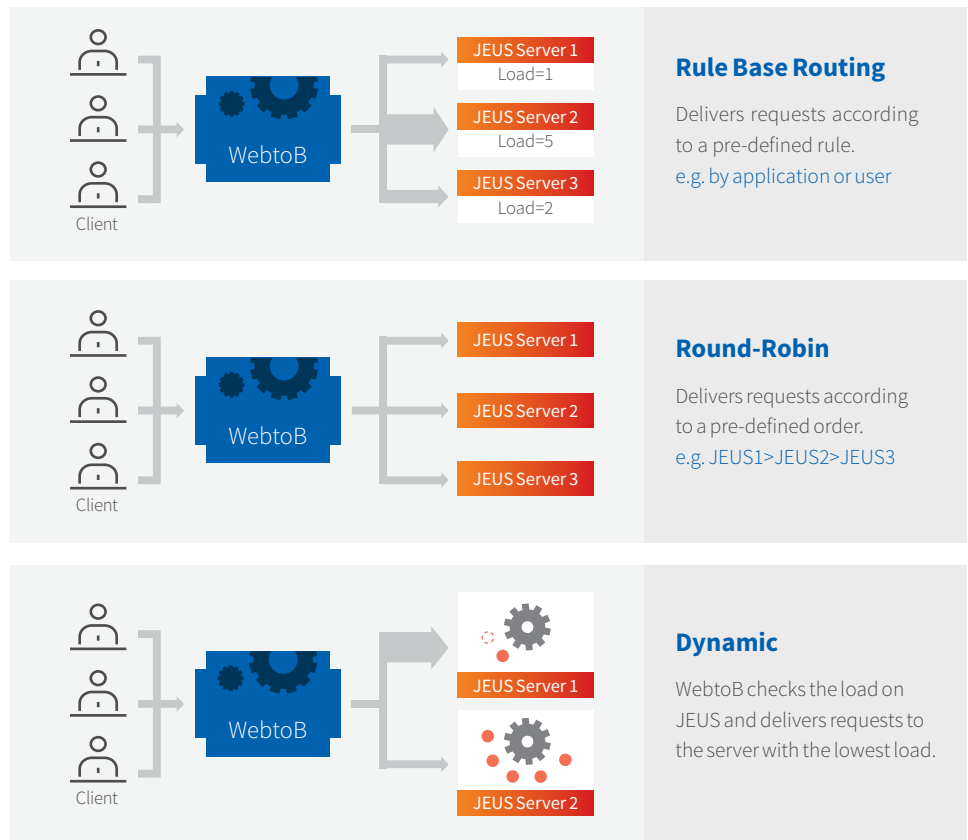
## Reverse connection pooling

JEUS and WebtoB can establish reverse connections without opening a communications port between them, ensuring security.



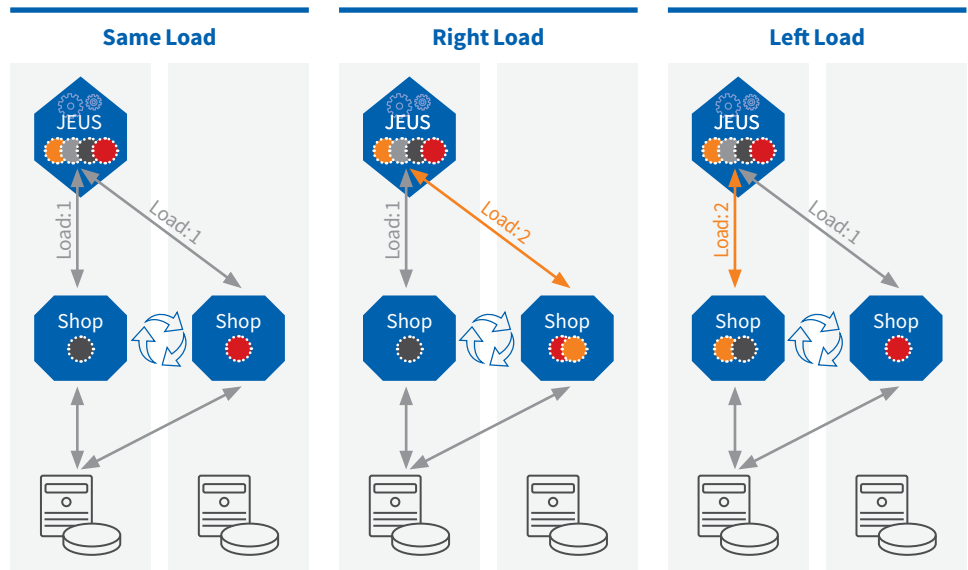
## A variety of load balancing

When connected to JEUS, WebtoB provides high performance and high availability to ensure system functionality. Even when a large number of clients are connected, WebtoB and JEUS ensure performance and availability by supporting diverse load distribution algorithms according to business characteristics.

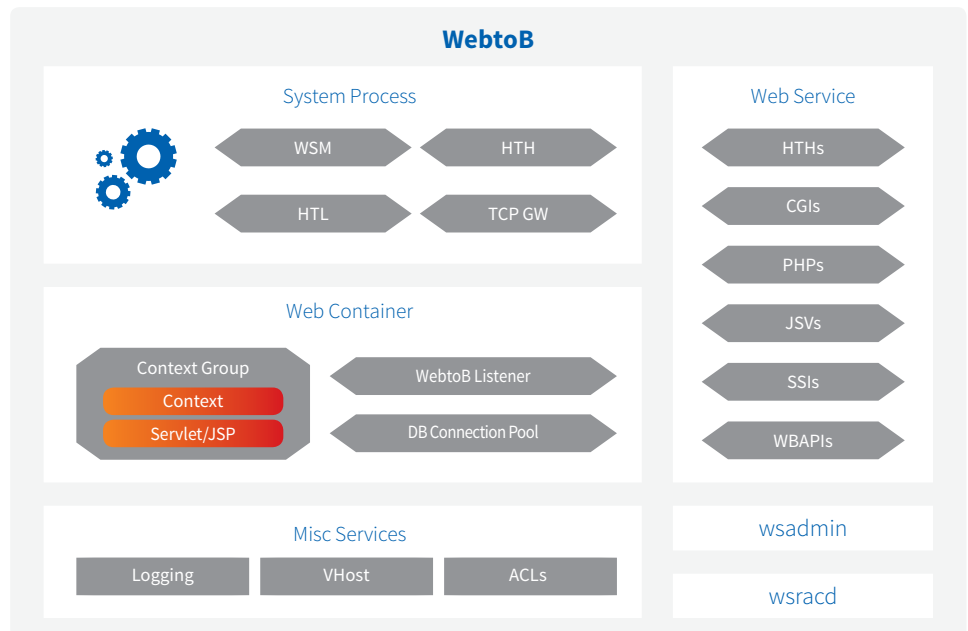


## Dynamic load balancing by node

When connected with JEUS, WebtoB distributes the load on a node by application. If a node has a high load due to an online batch job, WebtoB dynamically changes the load for load balancing.



## WebtoB architecture





## Basic web server functions

### **HTTP 1.1, IPv6**

Supports HTTP 1.1, a next generation standard protocol, and IPv6, the latest version of the Internet Protocol.

### **HTML, CGI, PHP, SSI and Servlet**

Supports XSSI, which is derived from PHP and SSI. In addition to HTML, WebtoB supports CGI (C, C++, Perl, etc.) and Fast CGI for dynamic information processing. WebtoB also supports JSP/Servlet programs by incorporating the JEUS Servlet engine.

### **Alias**

When a URI is sent from the client, WebtoB maps it to a physical directory to provide the requested resource. This makes operation easier for the system administrator.

### **Virtual host**

A virtual host enables a single server to manage web pages for multiple domains. It is mainly used by IDC or web servers. This reduces the overall cost, including expansion and maintenance costs.

## High performance

### **Multiplexing I/O**

WebtoB processes large volumes of data reliably and quickly while requiring few resources. WebtoB uses a multiplexing process in which a single manager handles multiple client requests.

### **Memory caching**

Caching is very effective for web services that use the same resources frequently by caching those resources in available memory. WebtoB internally provides TTL(Time to Live) to enhance resource efficiency.

### **Output compression**

Output compression sends a compressed response to user requests. This can enhance performance dramatically when the network is slow. Selective compression of Multi-part Internet Mail Extensions (MIME) data is possible and the compression rate can be viewed via access logs.

## High availability

### **Automatic failover**

When an application fails, WebtoB restarts it to improve system availability. Automatic restarting and the number of times to automatically restart can be configured.

### **A variety of load balancing algorithms**

Enables load balancing and failover via clustering, and diverse load balancing algorithms, such as round robin, rule based, and dynamic load balancing, are available.

### **Dynamic configuration**

Provides seamless services with dynamic configuration when a node or a server is added at runtime.

## Function/convenience

### WBAPI

WebtoB provides embedded APIs (WBAPI) to resolve the problems of existing CGI applications, enhancing application program convenience and system performance.

### Extension management

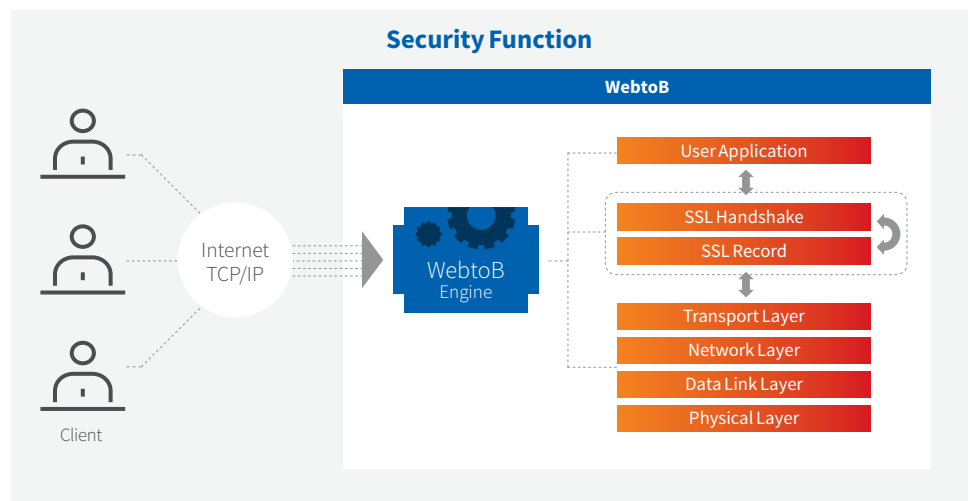
Extension management allows users to create extensions other than the fixed extension, MIME. The administrator can specify and apply different extensions for each client.

### Reverse proxy

A reverse proxy server acts as a proxy server that allows external users to connect to trusted network servers via HTTP connections. It allows all internal domain names to remain hidden from external networks. Reverse proxies provide a number of benefits in terms of security and maintenance through services policies for access.

### Securities

WebtoB fully supports ACLs (Access Control Lists) and SSL (Secure Socket Layer). These security functions show robust performance when used in the WebtoB engine. In general, other web servers use 3rd-party SSL packages, which causes performance degradation.



### Centralized system management

WebtoB provides management functions through web browsers, and it supports a fully-integrated management environment across distributed servers.





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