

Solbox Web Acceleration

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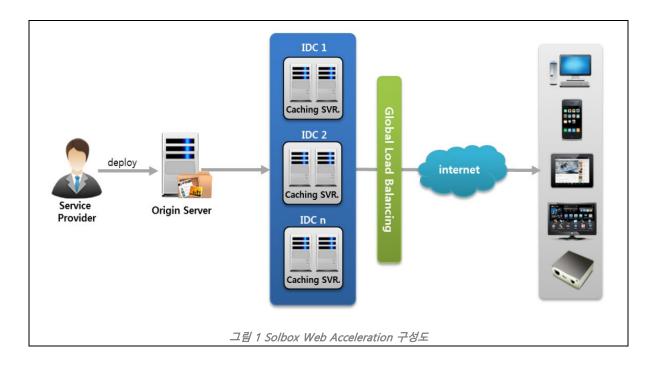
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1. Concept

1.1. Solbox Web Acceleration

Internet service users don't wait even a second. Interactions on the Internet are getting faster, your services must be tailored down to the smallest detail to meet individual needs, and web pages must of course be responsive.

Solbox Web Acceleration dramatically improves the response speed of the website by overcoming many of the factors that slow down the web service by applying the multi-core-based ultra-high performance caching features. With Solbox Web Acceleration, content service providers can deliver high-quality Internet experiences to their customers, which can lead to competitive customer competition.



1.2. Service Work Flow

2. Benefit

- Accelerate content loading dramatically for images, graphics, and flash to dramatically increase web page loading speed.
- Reduces the load on your web server with content caching
- Respond flexibly and reliably to the increase in service traffic in the event of a sudden surge in users when performing large-scale patches, events, and service promotions.

3. Key Features

3.1. Key Features

• High-performance caching solution based on multi-core

A low-end cache server puts a lot of load on the origin server. Multi-core based Solbox Web Acceleration delivers maximum performance with a single server, reducing the burden on the origin server.

Saving Optimized Caching Object

The file system, which is suitable for web caching, dramatically improves disk I/O and speeds up content processing.

Multi-origin Server & Automatic Failover Support

Supports redundancy and multiplexing of the origin server to ensure reliable nondisruptive service by automatically fail-over through the backup server (secondary server) in the event of failure or overloading of the primary server.

Offline Mode Support

If the service temporarily fails, it may be difficult to connect to the origin server. Only the content stored on the cache server can continue to provide services without interruption.

• Powerful & Fast Purge Feature

Powerful and fast purge capabilities offer instantaneous synchronization of content from the origin server to the cache server, enabling the same web service to the entire cache server.

Advanced Security

Blocks illegal content that might come through unauthorized links by restricting the referrers who can access the URL. Block or allow specific IP blocks, provide blocking functions for specific user agents such as specific strings, abusing tools, and strong content access control.

• Media Caching Support

Support for media caching features such as chunk for HTTP-based adaptive streaming, MP4/FLV Pseudo Streaming, and Progressive Download allows fast and reliable service of video and media content, effectively reducing the load on the original media server.

• Optimize Images for Web Pages

Working with the image optimization system, image files can be converted into objects optimized for web services to improve the speed when processing image content.

Encryption Communication Support

Supports HTTPS protocol including TLS 1.3 for content communication.

HTTP/2 Protocol Support

HTTP/2 is supported for efficient communication with client

• Origin Support in HTTP/HTTPS Format

Any server that supports HTTP and HTTPS protocols in the standard HTTP/1.0, HTTP/1.1 format can be used as an origin server.

3.2. Add-ons

• Non-disruptive Re-configuration

Server settings can be changed without service interruption despite frequent requests for servicerelated changes

Traffic Control Support

Traffic control function reduces peak traffic by 20-30% over service network by distributing and transmitting the amount of data in seconds.

Pre-loading Support

By pre-locating popular contents on a cache server, a service provider can prepare for large-scale events.

4. Applications

- Shopping malls, auction sites, comics, games, and portal sites that require a large scale of image loading on web pages
- High-capacity electronic catalogs where browsing occurs frequently
- Newsletters that occur regularly/periodically, Internet newspapers
- Online gaming sites that require frequent small & large patch file download
- Sites that require regular and periodic download services for antivirus and anti-adware service