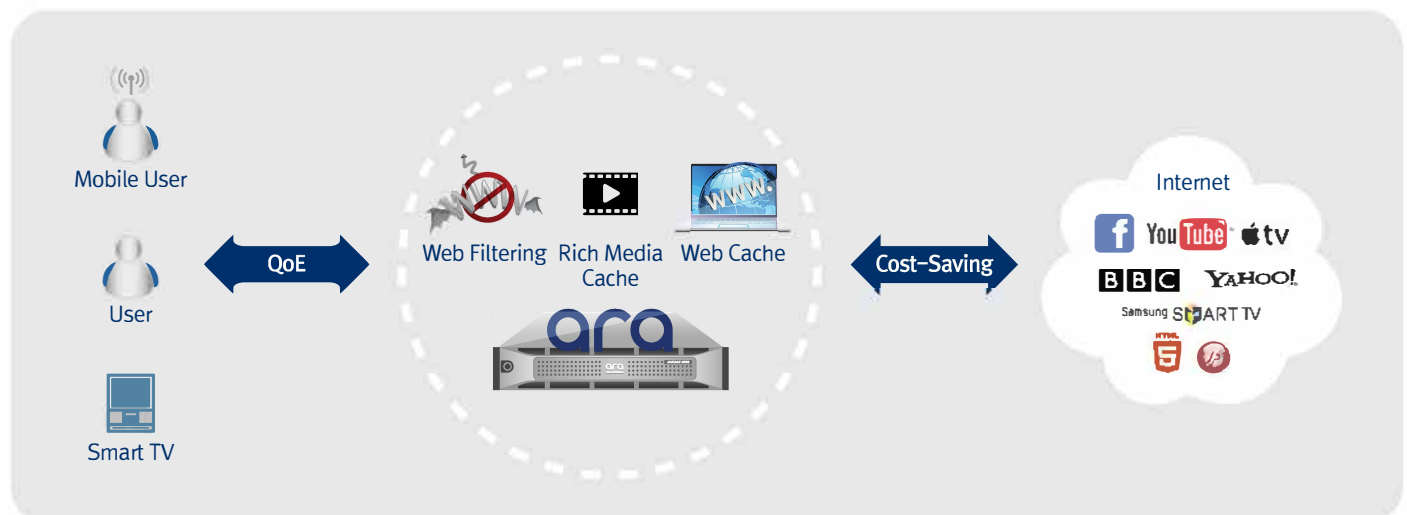


High Performance Multimedia Cache

Optimize Your Bandwidth and Service

Bandwidth–Cost Reduction and QoE Improvement

The amount of Internet video traffic takes more than 50% of the total Internet traffic, and it increases explosively every year. Network administrators, CDNs, and content providers are facing the challenge of transmitting video and web content to users with high speed. JAGUAR5000 accelerates the delivery of Web 2.0 content, especially OTT(over-the-top) video. JAGUAR5000 can save bandwidth and improve QoE(Quality of Experience). JAGUAR5000 also reduces infrastructure costs and attracts more subscribers dramatically.



Features & Benefits

Saving Bandwidth and Cost

It is possible to save bandwidth from 30% to 60% by caching video and web content with JAGUAR5000. In case of caching service with limited content such as web service or CDNs, the maximum bandwidth saving can reach 90%. With JAGUAR5000, ISPs can attract more subscribers without expanding network infrastructure.

Web Filtering

With the McAfee SmartFilter license, JAGUAR5000 can control web access and protect users from websites with content that belong to non-business or harmful categories such as adult, pornography, gambling, anti-government, video, phishing, and spyware sites to meet demands of each ISP or corporation. The custom category is available for allowing and blocking of URL sites. Filtering accuracy is upgraded as websites in the web filtering DB are classified into many categories according to real-time web usage patterns.

The Best Performance with Scalability

JAGUAR5000 is the world's best video/web cache with the 10Gbps performance that supports various features for ISPs. It is necessary to deploy the cache system to save the cost of leased lines. By deploying in a cache farm, a group of JAGUAR5000 can provide flexibility and scalability with features such as: file-sharing among different sets of storage, distributed cloud storage, automatic collection/distribution of OTT(over-the-top) traffic to increase the hit ratio, and integrated configurations.

CDN

Demand for CDN service increases as consumption of multimedia content are rising fast and enterprises depend more on the web to do their businesses and engage their customers. JAGUAR5000, deployed in the core, middle and the edge of network, improves QoE and saves bandwidth, with content stored closer to users. It results in seamless and faster content delivery for users, and efficient business and customer satisfaction for enterprises.

Secure Web Proxy

There is more effort to protect corporate secrets from web threats and increasing web applications, and there are more tendencies to increase the productivity by controlling internal users properly. JAGUAR5000 provides features such as : flexible control on non-business traffic, blocking of malware, preventing corporate secret from leakage, and monitoring social network service to increase work productivity and enhance security. Information on users, application control, and encrypted content can be collected and logged. The interworking technology with the DLP(Data Loss Prevention) system is provided as well.

Improving QoE for users

Internet responding time can be delayed when the traffic increases or the network is busy. JAGUAR5000 can deliver popular content to users without delay or bottleneck. When users request same content repeatedly, JAGUAR5000 transmits the content from local cache disks instead of the origin server.

Main Features

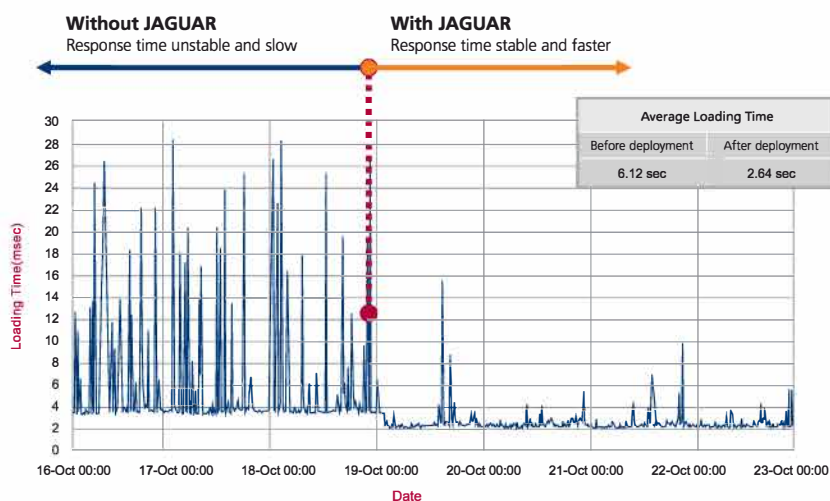
- ▶ **Supported Video over HTTP Formats** : FLV, MP4, AVI, MPEG, HTML5
 - ▶ **HTTP Live Streaming Caching** : Supports Adobe Flash HTTP Streaming, Apple HTTP Live Streaming, MS Silverlight Smooth Streaming
 - ▶ **Caching Shared Files** : Megavideo, 4shared, zSHARE, etc.
- ▶ **Content-based File Hashing**(Content Key Caching)
 - ▶ **Distributed Cloud Storage(MSE, Media Storage Extensions)** : Large objects can be shared among different sets of video cache storage.
 - ▶ **JCRP(JAGUAR Content Routing Protocol)** : Increase the efficiency by determining the role of each cache for users' requests after integration.
 - ▶ **Cloud-Based Configuration Synchronization** : Patterns are updated and distributed on cloud for frequently changed patterns from websites such as YouTube.
 - ▶ **Auto Detection and Bypassing on Asymmetric Sessions** : Asymmetric routing sessions between the client and the server are bypassed after automatic detection.
- ▶ **Supported Protocols** : HTTP, HTTPS, FTP, DNS
 - ▶ **Cache Modes** : Proxy, Reverse Cache, Transparent Cache, Hidden Cache
 - ▶ **Supporting Various Network Platforms** : L4/L7 switch, PBR, WCCP, Inline structure with the bypass NIC



Hardware Specifications

Model	AF451	AF853	AF1253	AF1634	AF2634
CPU	1	2	2	2	2
RAM	12GB	24GB	48GB	64GB	128GB
SmartFilter Option	Yes	Yes	Yes	Yes	Yes
Concurrent Sessions	500K	1,000K	1,000K	1,000K	1,000K
Total HDD's	4 x 900GB SAS	8 x 900GB SAS	2x600GB SAS 10x1.2TGB SAS	2x600GB SAS 14x1.2TGB SAS	2x600GB SAS 24x1.2TGB SAS
NIC	2 x 1GigE onboard	2 x 1GigE onboard	4 x 1GigE onboard (Optional 2 x 10GigE)	4 x 1GigE onboard (Optional 2 x 10GigE)	4 x 1GigE onboard (Optional 2 x 10GigE)

* SF/SR requires the same hardware specifications with AF/AR.



Headquarters
15Fl, Bojeon Bldg., 70-13,
Nonhyeon-dong, Gangnam-gu, Seoul
135-530, Korea.
T. +82 2 3446 6070 F. +82 2 3445 9099

R&D Center
201~205, Ssangyong Technology
Research Center 100, Shinseong-dong,
Yuseong-gu, Daejeon 305-804, Korea.
T. +82 42 867 7780~2 F. +82 42 867 7783

ARA Japan
8Fl, IzumiShibakouenBldg.,
1-6-8, Shibakouen, Minato-ku,
Tokyo, Japan.
T. +81 3 6450 1591 F. +81 3 6450 1592

ARA UAE
D-FXD G081 Techno Hub 1
Dubai silicon Oasis, Dubai, UAE
Email: info@prowme.com

ARA Networks | Internet Traffic Specialists | www.aranetworks.com