

Appendix A. Jaguar5000 Full product model Line-up

Global customers have been demanding on the appearance of big capacity of cache product which is able to save CAPEX and OPEX remarkably. We have been trying to reach the customer's demand. JAGUAR5000-SF2634 is a carrier-grade high performance web and multimedia caching solution to save WAN bandwidth and to decrease latency and hence increase users' Quality of Experience (QoE). There are numerous caching solution vendors in the market. However, J5K provides highest throughput from given or limited rack space.

JAGUAR5000 offers many amazing benefits that make the fastest ROI, best QoE and highest BW saving:

- Customers Quality of Experience (QoE) Enhancement: High internet Performance, fast website loading and quick video loading are the most measurable indicators to the ISP customers, with JAGUAR5000 solution the customer will touch the difference, and its daily experience will be better and better, customer will be more closer to its goal and win its client's satisfaction.
- With its big capacity with highest model(Total 5Gbps Throughput per 1 unit including 4Gbps of client-side throughput), again JAGUAR5000 saved the data center physical space by decreasing the counts of required appliances to fit for customers requirements.
- Remarkable Internet bandwidth Saving: 30~70% of bandwidth saving.
- Saving Physical Space: Data center space is one of the important resources for any ISP, utilizing the Data Center space is very important, with its 2U appliance size, JAGUAR5000 offer it full functions in small appliance size comparing to the other manufacture which they might need 3U or 4U or even 5U space for each appliance.
- Less administration effort: Providing automatic updates to the caching policy of ARA JAGUAR5000 and providing one central interface that will manage all JAGUAR5000 appliances (upto 1000 unit) will decrease the operational administration cost & time.
- Less Total Cost of Ownership: Thanks to the distributed cloud storage Media storage Engine (MSE) storage efficiency will be maximized by sharing the content among the MSEs and no need to invest in expensive L7 load balancing technologies to optimize the caching storage.

Below table describes ARA JAGUAR5000 product model.

MODEL		AF451	AF653	AF853	AF1253	AF1634	AF2634
Customer		Small ISP	Medium ISP		Large ISP		
Max sustainable Client-side throughput		350Mbps	600Mbps	1Gbps	2Gbps	3Gbps	4Gbps
Concurrent Session		500k	500k	1million	1million	1million	1million
RPS (Request per second)		10k	10k	20k	20k	20k	20k
Typical B/W saving ratio		30~70%					
S/W		Jaguar5000 (ver. 2.1.0 or higher version)					
Server Model		Dell R430 (1U)		Dell R730XD (2U) / HP DL380 G8			
H/W	CPU	1*6core	1*6core	2*6core	2*6core	2*6core	2*6core
	RAM	16GB	32GB	32GB	48GB	64GB	128GB
	HDD	2* 600GB 4*1.8TB	2* 600GB 6*1.8TB	2* 600GB 8*1.8TB	2* 600GB 12*1.8TB	2* 600GB 16*1.8TB	2* 600GB 24*1.8TB

Appendix B. Specification of Server Hardware for each model

ARA JAGUAR5000 is compatible with HP or Dell server who is global carrier-grade server vendor and provides elaborate international warranty service.

Below table describes the details of server specification for JAGUAR5000 models.

MODEL	SPECIFACTIONS
AF2634 (Dell R730XD)	<p>Model : Dell Poweredge R730XD (2U) CPU : 2 of Intel Xeon E5-2620v3 (2.4GHz), 6 core or higher RAM : 128GB (8 of 16GB) HDD : 2 of 600GB 2.5" SAS / 24 of 1.8TB 2.5" SAS Raid Controller : Dell H730p controller Power supply : 1100W, Hot plug, Dual NIC : 1G NIC (Broadcom 5720 QP 1G), 10G NIC (Intel X520 DP 10Gb DA/SFP+ with 2 of GBIC</p>
AF1634 (Dell R730XD)	<p>Model : Dell Poweredge R730XD (2U) CPU : 2 of Intel Xeon E5-2620v3 (2.4GHz), 6 core or higher RAM : 64GB (4 of 16GB) HDD : 2 of 600GB 2.5" SAS / 16 of 1.8TB 2.5" SAS Raid Controller : Dell H730p controller Power supply : 1100W, Hot plug, Dual NIC : 1G NIC (Broadcom 5720 QP 1G), 10G NIC (Intel X520 DP 10Gb DA/SFP+ with 2 of GBIC</p>
AF1253 (Dell R730XD)	<p>Model : Dell Poweredge R730XD (2U) CPU : 2 of Intel Xeon E5-2620v3 (2.4GHz), 6 core or higher RAM : 48GB (3 of 16GB) HDD : 2 of 600GB 2.5" SAS / 12 of 1.8TB 2.5" SAS Raid Controller : Dell H730p controller Power supply : 1100W, Hot plug, Dual NIC : 1G NIC (Broadcom 5720 QP 1G), 10G NIC (Intel X520 DP 10Gb DA/SFP+ with 2 of GBIC</p>
AF853 (Dell R730XD)	<p>Model : Dell Poweredge R730XD (2U) CPU : 2 of Intel Xeon E5-2620v3 (2.4GHz), 6 core or higher RAM : 32GB (4 of 8GB) HDD : 2 of 900GB 2.5" SAS / 8 of 1.8TB 2.5" SAS Raid Controller : Dell H730p controller Power supply : 1100W, Hot plug, Dual NIC : 1G NIC (Broadcom 5720 QP 1G), 10G NIC (Intel X520 DP 10Gb DA/SFP+ with 2 of GBIC</p>
AF653 (Dell R430)	<p>Model : Dell Poweredge R430 (1U) CPU : 1 of Intel Xeon E5-2620v3 (2.4GHz), 6 core or higher RAM : 32GB (4 of 8GB) HDD : 2 of 900GB 2.5" SAS / 6 of 1.8TB 2.5" SAS Raid Controller : Dell H730p controller Power supply : 550W, Hot plug, Dual NIC : On-board LOM 1Gbe (Broadcom 5720 QP 1G)</p>
AF451 (Dell R430)	<p>Model : Dell Poweredge R430 (1U) CPU : 1 of Intel Xeon E5-2620v3 (2.4GHz), 6 core or higher RAM : 16GB (2 of 8GB) HDD : 2 of 900GB 2.5" SAS / 4 of 1.8TB 2.5" SAS Raid Controller : Dell H730p controller Power supply : 550W, Hot plug, Dual NIC : On-board LOM 1Gbe (Broadcom 5720 QP 1G)</p>