



SANGFOR ADC (Application Delivery Controller) Feature List

Sangfor Application Delivery Controller provides comprehensive load balancing solution for datacenters; including multiple datacenter, link controller and server load balancing. By converging server performance optimization, one-side acceleration and intelligent management, the product enables real-time status monitoring for data center, network and servers. Selected by Gartner Magic Quadrant for over five consecutive years, Sangfor application delivery has provided service to more than 3000 high-end customers.



Converged Load Balancing

- ▶ **Comprehensive Functions:** Global server load balancing, link controller and server load balancing are consolidated.
- ▶ **Extraordinary Cost Effective:** Three load balancing functions are embedded in one device without additional authorization; and SSL acceleration, HTTP caching, HTTP compression are available without additional cost.
- ▶ **Future-Prove:** Virtualized ADC is compatible with Sangfor HCI, VMware, Xen hypervisor for virtualized infrastructure. It also provides a API to connect with cloud platform including OpenStack and CloudStack. It is ideal solution for cloud infrastructure.

Agile and Intelligent

- ▶ **One-Side Acceleration:** Unique function in the industry for user speed acceleration without installing plug-in software.
- ▶ **Intelligent Business Analysis:** Sangfor application delivery enables status monitoring for network connection and application performance in datacenter. The associated application related statistics provide complete visibility in the health and performance of your apps for faster troubleshooting and more effective optimization.
- ▶ **Intelligent Optimization:** A series of technology containing DNS transparent proxy, link/server congestion protection, adaptive intelligent routing and message/email warning to increase the overall performance and efficiency of the infrastructure as well as improving end-user experience.

Your Future-Proof IT Enabler

Sangfor Technologies

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Feature List	
Function	Detail
Deployment and Management	Support route mode, bypass mode (Single arm mode /Multiple arm mode /DR mode)
	Support Active-passive, Active-Active high available deployment, as well as multiple modes of high performance cluster including A/A mode , A/S mode and M+N mode
	Support multi-tenant mode, multiple virtual AD deploy in one physical device
	Customize alarm system and user-defined warning event for network and applications, sending warning message and email automatically
	Support HTTPS login, user role management, multi-level authorization management; support SNMP management, SSH CLI
	Support administrator authentication from LDAP and radius server
	Support output system log to syslog server and NAT log to NAT log server
Intelligent DNS/ Inbound load balance	Support intelligent DNS resolution; multiple record type supported including intranet, A, CNAME, MX and TXT
	Variety of intelligent DNS algorithms: round robin, weighted round robin, weighted least connection, hashing, weighted least traffic, first available, round trip time, static proximity etc.
	Support Internal DNS record
	Support multiple public IP addresses are associated with a one domain name
Outbound load balance	Variety of outbound load balance algorithms: round robin, bandwidth rate, weighted least traffic, round trip time, etc.
	Dynamic routing protocol supported including RIP v1, RIP v2, OSPF
	Support IP Anycast
	Interface support IPv4/IPv6 and NAT each other
	Support policy-based routing and customize load controller: outbound link optimization based on domain name, and source/destination IP, protocol, valid time, link status.
	Support inbound/outbound load balance in the same time.
	Support congestion control and DNS transparent proxy avoid traffic is not average in different ISP link issue.
	Support ISP selection in multi-ISP scenario by dynamic network proximity analysis and static address proximity analysis
	Variety of link health monitor, and link traffic failover
	Support L4/L7 Content-aware switching and load balance, and be able to create multiple virtual services for separate applications
	Support server smooth on-line and off-line, eliminating server overload by limiting maximum access and maximum concurrent session in server
	Service health check based on SNMP, ICMP, UDP, TCP, DNS, RADIUS, HTTP, database(MYSQL/MSSQL/Oracle) and customized strategy
	Passive health check based on TCP and HTTP abnormal connection
	Support server over load protection based on TCP connection status monitor

Server load balance	Support delay deliver data to over load server and not drop data
	Support set recovery time to provide service after server recover health.
	Support set warm-up time to increase connections gradually when server start to provide service.
	Optimization in web picture transmission without accuracy decay
	Support One-way acceleration for user to accelerate access speed without installing any plug-in program or software
	Advanced strategy including HTTP request/response rewrite, HTTP/HTTPS request match, automatic page forwarding, page abandoning
	SSL off load , HTTP compression, RAM caching, TCP connection reuse for speed up user access experience and reduce IT investment
	Support insert X-Forwarded-For to HTTP head and send IP to server
	Support self-signed certificate and import certificate from other organization
	Support download connection control and QoS
	Variety of server load balancing algorithms: round robin, weighted round robin, weighted Least Connection, hashing, fastest response, Priority,etc
	Support session persistence by resource IP, Cookie(insert/passive/rewrite) HTTP (Header/ Body), RADIUS, SSL Session ID
	Load balance for Oracle and Mysql database and improve database server resource usage
	Variety of global server load balance algorithms: round robin, weighted round robin, weighted Least-Connection, hashing, fastest response, Priority, static/dynamic proximity, rejection and abandoning
Intelligent Analysis	Support configuration synchronization to all or part sites
	Support create restore point and configuration roll back to restore point
	Statistics of access frequency based on multiple data center and different LDNS
	Support monitor remote datacenter ADC status in local
	Statistics of bandwidth utilization ratio and application distribution in links(download and upload)
	Statistics of the virtual service connection status based on IP or service.
Security	Statistics of traffic flow, new connection and concurrent connection for node and node pool
	Statistics of link and server stability
	Support SSL encryption and HTTPS transmission in WAN for HTTP server
	Support L4/L7 anti-DoS/DDoS, Protect against a broad spectrum of threats, including CC attack, SYN-Flooding distributed denial-of-service (DDoS)
	Support ARP protection and gateway ARP spoofing detection
	Support ACL

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