

# Stingray Traffic Manager licensing guide

This document describes the features and license options for Stingray Traffic Manager version 8.x.

## Stingray Traffic Manager Configurations

Model	1000 Series			2000 Series		4000 Series			
Configurations	L	M	H	L	M	L	M	H	VH
Profile	Software or Virtual Appliance								
Throughput	10 Mbps	200 Mbps	1 Gbps	1 Gbps	2 Gbps	5 Gbps	10 Gbps	20 Gbps	Unlimited
SSL Transactions per sec	1,000			10,000		Unlimited			
Functionality	Core			Advanced		Advanced			
Optional features									
Application Firewall	Option			Option		Option			

## Functionality table

Functionality	Core	Advanced
Models	1000 model	2000, 4000 models
Management Interfaces	Web-based GUI, SOAP API, CLI	Web-based GUI, SOAP API, CLI
Cluster size	Up to 64 fault-tolerant units	Up to 64 fault-tolerant units
Layer-7 Load Balancing	Y	Y
TCP and HTTP Application Acceleration	Y	Y
SSL and Compression offload	Y	Y
Web Content Caching	Y	Y
TrafficScript, RuleBuilder and Java rules	Y	Y
Visualization and Analytics	Y	Y
IPv6 support	Y	Y
Global Load Balancing		Y
Bandwidth Management		Y
Transaction Rate Shaping		Y
Service Level Monitoring		Y
Application Auto-Scaling		Y
Application Firewall	Option	Option

## Stingray Traffic Manager licenses

License type	Purpose	Performance	Support	Duration	Cost
Development license	Non-production	1 Mbps 1,000 SSL TPS	None	1 year, renewable	No cost
Evaluation license	Evaluation, Pre-production	Unlimited	Support and updates	15-30 days	No cost
Production license	Production	As licensed	Support and updates	Perpetual or subscription	Per device

### Development Licenses for non-production purposes

Functional capabilities	Stingray Traffic Manager, full functionality, all options
Licensed performance	1 Mbps throughput; 1,000 SSL transactions per second
Deployment	May be deployed on multiple servers for non-production use
Validity	1 year, renewable
Support	No support available

Stingray Traffic Manager development licenses may be used for any non-production, non-business-critical purpose at no cost.

### Evaluation licenses

Functional capabilities	Stingray Traffic Manager, full functionality, all options
Licensed performance	Unrestricted
Deployment	On multiple servers for pre-production evaluation
Validity	15-30 days
Support	Software updates and technical support at no cost

Evaluation Licenses may be used to process production traffic during the limited evaluation period.

### Production Licenses

Functional capabilities	As licensed
Licensed performance	From 10 Mbps throughput to 'unlimited'; from 1,000 SSL TPS to 'unlimited'
Deployment	On single system; bound to IP or MAC address
Validity	Perpetual or subscription
Support	Software updates and technical support

Production licenses may be used for any purposes, on a single system only.

All licenses are subject to the Riverbed End User License Agreement at <http://www.riverbed.com/license>.

## Frequently Asked Questions

### Where may I obtain licenses from?

Development and Evaluation license keys and related software downloads may be obtained from <http://www.riverbed.com/>.

Production License Keys may be obtained from your Riverbed partner.

### What are perpetual and subscription licenses?

You can license Riverbed Stingray software on either a perpetual or subscription basis:

- Perpetual licenses provide a perpetual (non-expiring) license key that may be used on one server. Support and software upgrades are not included with a perpetual license, and can be obtained by paying an annual support fee.
- Subscription licenses allow you to use the software for a period of time (the 'term') and oblige you to pay a periodic subscription fee (monthly) for that term. Subscription licenses include support and maintenance.

### What are the performance bands for production licenses?

Production licenses include a performance rating which specifies the maximum capacity of the software. The performance rating applies to outgoing bandwidth and to SSL transactions per second and are listed on the Stingray Traffic Manager tech specs documentation.

Bandwidth Capacity is applied to outgoing traffic only, after content compression, and is applied per Stingray Traffic Manager. It limits the speed at which the Traffic Manager reads data from the backend server nodes. If the capacity limit is reached, then outgoing traffic may be delayed momentarily. Connections are serviced in a fair manner.

Connections will not be dropped unless outbound traffic greatly exceeds the bandwidth capacity for a sustained period of time, when no data can be transmitted before the client or server timeouts expire.

SSL Capacity is applied to SSL handshakes (new SSL transactions) and is applied per Stingray Traffic Manager. It is not dependent on the size of the SSL private keys (1024 bit, 2048 bit etc). Incoming connections that exceed this rate will be queued momentarily and serviced in a fair manner subject to the licensed rate.

Note that the host hardware must be adequately specified in order to deliver the desired performance.

### Timeouts – when are requests discarded?

Client software (web browsers) and server software (e.g. web or application servers) both impose timeouts for connections. If a connection is idle for longer than the timeout period, it is closed.

Under heavy, sustained load, responses are processed in a fair manner and partial responses are delivered to ensure that all connections are serviced equally. This means that connections are rarely idle for long periods of time when there is data waiting to be written, so connections are very unlikely to be closed down prematurely due to the bandwidth shaping.

### How do I determine what performance band I require?

Stingray evaluation licenses do not contain a performance restriction, and may be used for short periods on production sites to gauge the performance requirements.

You can determine how much traffic an existing service is processing using the historical activity graphs, and current data from the activity charts and data available via SNMP and SOAP.

The historical activity charts record bandwidth smoothed over 5 minute periods; you should add a margin of 50-100% to account for momentary traffic spikes.

When you run with a performance-based license, the Stingray software will log a warning and raise an alert to inform any time that it is necessary to limit the performance. Traffic is queued, so your end users will experience a momentary slowdown in your service. You can then upgrade to a higher-capacity license if necessary.

### What does 'Unlimited Performance' mean?

'Unlimited Performance' means that the license key does not apply a performance rating, and the software can process traffic as rapidly as the host system allows. Performance examples may be found in the Stingray Performance Quick Reference document.

### What is 'Non-Production' use?

Development licenses may only be used for non-production use:

- 'Non-Production' use includes development, temporary testing, internal training and proof-of-concept purposes.
- 'Production' use includes any purposes which could be regarded as 'business-critical'; public internet and internal intranet services, services that take live traffic, permanent replicas of production sites, permanent benchmarking and load testing environments, and any other services that are run on a commercial basis or for commercial gain.

### What happens when a license expires?

Perpetual licenses do not expire. Other licenses issued by Riverbed will have an expiry date.

Once the expiry date has passed, the software will not manage traffic. Stingray Traffic Manager software raises warnings and alerts well in advance of expiry, and if a license with an expiry date is used in production, customers should configure the Stingray software to email these warnings to an appropriate account.

The zero-cost licenses that Riverbed issues for non-production use can be renewed for subsequent years at no cost unless Riverbed has terminated the relevant license program.

### What does 'bound to IP address / MAC address' mean?

Production Licenses may be deployed on a single nominated host system only. To this end, they contain either an IP Address or a MAC Address that identifies the host system, and will only operate on a host with a matching address.

Technical workarounds to deploy the license simultaneously on two or more host systems are in breach of Riverbed's End User License Agreement.

### Upgrading or transferring licenses

Production licenses may be transferred between host machines, operating systems and platforms at no charge. Please request an 'IP Address Change' form from your Riverbed support contact.

Production licenses may be upgraded to increase performance capacity or unlock additional features – license upgrades are seamless and do not require a software restart. Please contact your Riverbed sales representative for details.

## About Riverbed

Riverbed delivers performance for the globally connected enterprise. With Riverbed, enterprises can successfully and intelligently implement strategic initiatives such as virtualization, consolidation, cloud computing, and disaster recovery without fear of compromising performance. By giving enterprises the platform they need to understand, optimize and consolidate their IT, Riverbed helps enterprises to build a fast, fluid and dynamic IT architecture that aligns with the business needs of the organization. Additional information about Riverbed (NASDAQ: RVBD) is available at [www.riverbed.com](http://www.riverbed.com).



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