

KEMP Technologies

LoadMaster 1500/2500/2400/2460/2860/3620

Version 4.0

Release Notes

KEMP Technologies
May 31, 2007

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Platform Compatibility

The KEMP Technologies LoadMaster 4.0 release is supported on the following platforms:

- **KEMP Technologies LoadMaster 1500** *
- **KEMP Technologies LoadMaster 2500**
- **KEMP Technologies LoadMaster 2400** **
- **KEMP Technologies LoadMaster 2460**
- **KEMP Technologies LoadMaster 2860**
- **KEMP Technologies LoadMaster 3620**

* For LoadMaster 1500's with a round power switch on a black front panel, please contact KEMP Technologies for hardware adjustment details.

** For LoadMaster 2400's with one red front panel LED, please contact KEMP Technologies for hardware adjustment details.

New Features

The following features are introduced in the KEMP Technologies LoadMaster 4.0 release:

- **On-board SSL CSR (Certificate Signing Request) Generation**—New SSL certificates/CSR's can be created quickly and easily directly on the KEMP Technologies LoadMaster via the WUI. SSL certificates and keys can all be installed and upgraded with a simple-to-use cut and paste interface.
- **Easier-to-use Web User Interface (WUI)**— Over 98% of the KEMP Technologies LoadMaster's functionality is now exposed in an easy-to-use WUI. All network interface addressing and all SSL add/delete/modify functions are now completely web enabled. Local logging can now be easily viewed from a browser; multiple logs are automatically brought up in separate tabs.
- **Fine-Grained Remote Administration**—Control of remote administration for the KEMP Technologies LoadMaster is more granular than before. Remote ssh and https access can be enabled or disabled independently and each protocol can be restricted to one or more specific interfaces or IP's.
- **Fine-Grained Layer 7 IP address transparency** — Layer 7 IP address transparency can now be configured on a per-Virtual-Service basis. With this improvement, the KEMP Technologies LoadMaster can be successfully deployed in a much wider range of network topologies and multi-tiered application architectures.
- **Configurable naming for HTTP IP header insertion**— The KEMP Technologies

LoadMaster now provides for a configurable choice between the original KEMP X-ClientSide header and the industry-standard-named X-Forwarded-For (XFF) header

- **Support for Syslog “Info” level**— A sixth syslog level (“info”) is now supported for remote logging. This level is particularly useful for gaining visibility on non-critical HA subsystem events.
- **Configurable S/NAT addressing**— No longer confined to a global hard-coded value, S/NAT addressing for a Real Server can now be easily coupled to Virtual Server addressing. This is particularly important in multiprotocol environments where forward and reverse DNS lookups must be properly aligned (e.g., SMTP/POP3).
- **Support for IP non-transparent load balancing of all TCP protocols**— All well-behaved single-port TCP applications can now be configured for either IP transparent load balancing (Source IP as seen by Real Server is Client IP) or IP non-transparent (Source IP as seen by Real Server is LoadMaster IP). The latter option facilitates interoperability in environments with well-defined, unchangeable IP routing schemes.
- **Configurable L7 idle timeout**— For load balancing applications with extraordinary wait times (e.g., large-scale reporting apps), the KEMP Technologies LoadMaster now provides configurable idle timeouts for pinpoint load balancer resource management.
- **Extended Subnetting Configuration Support (a.k.a. “router-on-a-stick”)** — Multiple overlaid subnets can now be configured on each Ethernet interface. In conjunction with a router/switch that can perform active VLAN tagging based on IP address, the KEMP Technologies LoadMaster can be configured for operation in highly segmented networked environments.
- **Support for SSHv2**— The KEMP Technologies LoadMaster now has complete SSHv2 support, for enhanced remote administration security.
- **Support for Initial Configuration via HTTP** — With just an Ethernet crossover cable connection, the KEMP Technologies LoadMaster can now be completely configured out of the box from any laptop or desktop host with just an Ajax-capable browser.
- **At-a-glance SSL Certificate display**— The WUI now displays the identity (CN) field of each installed SSL certificate as part of the Virtual Service summary display.
- **Greater support for SSL offload/acceleration of RFC application protocols** — In addition to support for HTTPS, the KEMP Technologies LoadMaster now offers support for SMTPS, IMAPS, POP3S, and LDAPS.

Known Issues

This section contains a list of known issues in the KEMP Technologies LoadMaster 4.0 release.

- **Symptom:** Browser errors with SSL offload at the LoadMaster are noted in Firefox and Opera, but not in Internet Explorer. **Condition:** May occur when an incorrect intermediate SSL certificate (but bearing a matching CN field) is installed on the LoadMaster.
- **Symptom:** L7 transparency checkbox in Virtual Services Properties page shows incorrect transparency status. **Condition:** May occur immediately post-upgrade from version 3.1-x. **Workaround:** Toggle the L7 Transparency menu option in the System Configuration – Miscellaneous Options – L7 Configuration screen of the web interface. If ALL Virtual Services are intended to be transparent, leave the setting at “enabled”. If ANY Virtual Service is intended to be L7 non-transparent, ensure that the setting is “disabled”.
- **Symptom:** HTTP Redirect rewriting is inconsistent. **Condition:** Occurs on the second (and subsequent) server replies when redirects are made to the same host and subsequent HTTP 1.1 requests ride on an already established TCP connection. **Workaround:** Disabling HTTP keepalives at the Real Server will ensure that only one server reply is issued per TCP connection.

Resolved Known Issues

The following issues are resolved in the KEMP Technologies LoadMaster 4.0 release:

- **Symptom:** With L7 Real Server healthchecks, the LoadMaster incorrectly marks a Real Server as healthy when it returns an RST in reply to a TCP connection attempt.
- **Symptom:** System behaves erratically when more than 30 Content Rules are defined.
- **Symptom:** The payload associated with HTTP POST requests larger than 16K are sporadically truncated.

Related Technical Documentation

Technical documentation is available on the KEMP Technologies web site located at:
<http://www.kemptechnologies.com/support/Documentation/index.htm>

(username – support, password – kemptech)

Document version: May 31, 2007