

Software Release Notes

Compatible LoadMaster Products: LM-2000, LM-Exchange, LM-2200,
Except where noted. LM-2500, LM-2600, LM-3500, LM-3600,
LM-5500, VLM-100, VLM-1000
VLM-Exchange, VLM-DR

Introduction

The current software is a maintenance release of the KEMP Technologies LoadMaster series and this document describes the features supported in the current and previous releases.



We ***recommend*** you fully back up your LoadMaster configuration ***before*** upgrading the software. Instructions for backing up the LoadMaster are described in the [LoadMaster Configuration Guide](#). Installation of this software and reloading of the configuration may take up to five (5) minutes, or possibly more, during which time the LoadMaster being upgraded will be ***unavailable to carry traffic***.

Pre-requisites

The following are recommendations for upgrading the software:

- The person undertaking the upgrade should be a network administrator or someone with equivalent knowledge.
- In case of issues restoring backup configurations, configuring LoadMasters or other maintenance issues, we recommend you have on hand one or more of the following documents, depending upon your application(s):
 - [LoadMaster QuickStart Guide](#)
 - LoadMaster Configuration Guide
 - [LoadMaster SSL QuickStart Guide](#)
 - [Exchange 2010 Deployment Guide](#)
- Full LoadMaster documentation is found [HERE](#).

Support

Should you experience problems loading the software release, you may contact KEMP support staff via our automated trouble ticket system [HERE](#) and a KEMP support Engineer will call you promptly.

Release Versions:

6.0-25	6.0-24	6.0-15
6.0-26	6.0-23	6.0-14
6.0-27	6.0-22	6.0-13
6.0-28	6.0-21	6.0-12
6.0-28a	6.0-20	6.0-11
	6.0-19	6.0-10
	6.0-18	6.0-9
	6.0-17	6.0-8
	6.0-16	Notices

Release 6.0-28a

New Features

New 'Cookie-Based' Persistence Methods

New persistence methods, based on cookies, have been added to the existing methods. The methods added are as follows:

- **Server Cookie Persistence**
This method uses existing cookies generated from the server to determine which server to send users to.
- **Active Cookie Persistence**
This method uses cookies generated by the LoadMaster, not the server.
- **Server Cookie or Source IP Persistence**
This method is identical to the Server Cookie setting, but with the additional feature that it will fall back to Source IP persistence in the event no cookies are in the HTTP string.
- **Active Cookie or Source IP Persistence**
This method is identical to the Active Cookie setting, but with the additional feature that it will fall back to Source IP persistence in the event no cookies are in the HTTP string.
- **Hash All Cookies Persistence**
This method creates a hash of the values of all cookies in the HTTP stream.
- **Hash All Cookies or Source IP Persistence**
This method is identical to Hash All Cookies, with the additional feature that it will fall back to Source IP persistence in the event no cookies are in the HTTP string.

Issues Resolved

None

Known Issues

- 1. Issue:** Packet option in the RS metrics page is non-functional
- 2. Issue:** LM-5500 SSL ASIC cards do not load after upgrade. Call support.
- 3. Issue:** Automated backup does not work properly with Windows FTP
- 4. Issue:** FQDN is not displayed when filename begins with a uppercase letter
- 5. Issue:** GEO/DR binddb segfault errors in logs
Workaround: These can safely be ignored as there is no impact on operation
- 6. Issue:** Additional subnets on this Interface: When upgrading to 6.0-28a, these will not be converted correctly. The mask will be incorrectly appended to the end of the actual address. For example, 192.168.0.1/24 becomes 192.168.0.1255.255.255.0
Workaround: Edit the Additional Addresses field to fix the netmask back to the CIDR notation (including the slash)
- 7. Issue:** GEO/DR Configuration backup does not work
Workaround: Rebooting post-restore will apply the changes
- 8. Issue:** GEO/DR Configuration backup becomes overwritten in a multi-geo/dr deployment
Workaround: None
- 9. Issue:** Packet filter/Access Control Lists only causes problems with multiple VS's with the same IP
Workaround: Disable packet filter

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Release 6.0-28

New Features

None

Issues Resolved

448 - *Preferred HA Host*

Using preferred HA Host does not cause a change in Master/Standby between units.

474 - *WUI Interface*

Switching which interface is used for WUI, requires reboot before being applied.

476 - *VIP Port Range*

VIP displayed port range for RS required small adjustments.

481 - *Port Following*

Fixed. Did not show as WUI option.

482 - *Console CLI*

Can now save VS settings..

Known Issues

- 1. Issue:** Packet option in the RS metrics page is non-functional
- 2. Issue:** LM-5500 SSL ASIC cards do not load after upgrade. Call support.
- 3. Issue:** Automated backup does not work properly with Windows FTP
- 4. Issue:** FQDN is not displayed when filename begins with a uppercase letter
- 5. Issue:** GEO/DR binddb sefault errors in logs
Workaround: These can safely be ignored as there is no impact on operation
- 6. Issue:** Additional subnets on this Interface: When upgrading to 6.0-28, these will not be converted correctly. The mask will be incorrectly appended to the end of the actual address. For example, 192.168.0.1/24 becomes 192.168.0.1255.255.255.0
Workaround: Edit the Additional Addresses field to fix the netmask back to the CIDR notation (including the slash)
- 7. Issue:** GEO/DR Configuration backup does not work
Workaround: Rebooting post-restore will apply the changes
- 8. Issue:** GEO/DR Configuration backup becomes overwritten in a multi-geo/dr deployment
Workaround: None
- 9. Issue:** Packet filter/Access Control Lists only causes problems with multiple VS's with the same IP
Workaround: Disable packet filter

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Release 6.0-27

New Features

Configurable Healthcheck Headers

You can specify up to 4 additional headers/fields which will be sent with each healthcheck request.

Issues Resolved

461 - Disabled Real Server Failure

Stopping an RS prevented further access until drain stop elapsed..

465 - Javascript Resources

Include addr.js in the index page so it will always be reloaded.

472 - Geo LM Issues

Fixed various sync and filtering issues.

- Multicast Addresses

Can no longer specify invalid / multicast addresses where these would be invalid.

- Carps

The IPv6 address for Carps multicast packets has been changed to the IANA defined value. (Only used on interfaces whose primary address is IPv6).

Known Issues

None

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Release 6.0-26

New Features

None

Issues Resolved

457 - *Adding Addresses*

Can now add addresses to eth2 and above.

441 - *ACL*

Improved diagnostics for Access Control Lists.

460 - *Wildcard VS*

Can modify a Real Server on Wildcard VS without error message.

Known Issues

None

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Release 6.0-25

New Features

None

Issues Resolved

448/451 - *HA Preferred*

Can now set Standby as HA preferred.

454 - *VS Statistics*

Statistics page shows multiple VS' per page.

453 - *IPv4 Netmask*

No longer fills to end of next octet.

452 - VS Healthcheck

SMTP VS health checks now default to port 25 on the RS.

446 - WUI HTTP Header

Issue resolved with caching.

- STARTTLS Service

Creating an SMTP service will automatically select this type! But does not have to STARTTLS in the default configuration mode since it is optional.

Known Issues

None

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Release 6.0-24**New Features**

None

Issues Resolved**432 - Administrative Gateway**

Cannot remove admin gateway.

435 - Sorry Server

Now applies to HTTP and is not available for other services.

436 - Automated Backup

Protocol is pure FTP.

437 - Service Specific Access Control

Is an advanced option, not generic.

438 - SSL Acceleration

Renamed to Acceleration Enabled..

439 - Saving Host

Can now save host.

442 - SSH Console

Fixed repeated output message.

443 - Alternate Address eth0

Adding IPv4 alternate address does not require reboot.

Known Issues

None

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Release 6.0-23

New Features

None

Issues Resolved

431 - *RS Check Parameters*

Cannot change RS check parameters on duplicated layer 4 VS's. Displays "Down" even when unchecked. User must change IDs of VS and RS when duplicating.

412 - *Certificate Backup*

On 6.0, using 5.1 cert backup results in disassociation from cert & VS. This also solves the problem of updating from V5.1 to V6 via a patch.

Known Issues

None

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Release 6.0-22

New Features

None

Issues Resolved

428 - *Crash with Compression and Cache*

If the client closed a connection while the compression code was running, it could crash the LoadMaster. The error will still occur under these circumstances, but it will no longer crash the device.

- *Client Limiter*

Can now change values without requiring a reload.

Known Issues

None

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Release 6.0-21

New Features

None

Issues Resolved

421 - *BEAST*

"BEAST workaround for SSL". The server has to be told to select IT's certificate instead of letting the client choose.

426 - *Restoring Certificates*

Restoring certificates results in loss of WUI, reboot fixes. Don't delete the shared certificate file.

- *Critical Emails*

Are now sent immediately.

Known Issues

None

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Release 6.0-20

New Features

Security

We have added additional types of STARTTLS service types.

Issues Resolved

389 - *Subnet*

If subnet originating is enabled, It now works on a per RS basis

- *Frame Enable Challenge*

Is now based on the machine ID / InstanceId instead of a random number. This allows users to do a "frame enable" over email. The challenge will change every two days, just to make it random.

- Chunked Transfer Posts

Are now fully supported in L7 and over the admin interface. This will help certain java based clients.

Known Issues

None

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Release 6.0-19

New Features

VS & RS ID

These are now assigned a unique ID which will never change - this is mainly done for SNMP, and it may be used in the future for new features.

Diagnostic Email

The diagnostic email has been upgraded. It is now possible to change the port on the SMTP server. It is now also possible to select SSL or STARTTLS as the security model.

Issues Resolved

405 - Updates

Can't Update - "Update still in progress". -Added better diagnostics also improved message about not being able to update.

414 - Subnets

Fixed issue with "Secondary Network" broken after upgrade from 5.1 to 6.0-17.

- SNMP

SNMP has also been upgraded to support address independent fields instead of IPv4 addresses. A new MIB is required.

- VS & RS Tables

The VS and RS tables which were split between the 12 and 13 trees have been merged – To make it easier for SNMP customers to dump out the state for specific VSs and RSs

Known Issues

None

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Release 6.0-18

New Features

Security

Added FIPS 140-2 Level 1 support. This is a software implementation of FIPS and may run virtually on a customer's server or on a LoadMaster model LM-2200 and higher.

Issues Resolved

None

Known Issues

None

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Release 6.0-17

New Features

None

Issues Resolved

396 - *IPv6*

Adding a new IPv6 RS always returned "cannot create".

398 - *Automated Backup*

Pop up window needed time to be formatted..

404 - *Intermediate Certificates*

After applying intermediate cert, LM displayed extra/unnecessary text..

401 - *SOA Email*

Email address requires a trailing dot. Automatically added by LoadMaster.

- *PCI Cross Site*

If LoadMaster's WUI was requested using a bad method, LoadMaster returned both the bad method and the URL that was requested. Fixed.

Known Issues

None

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Release 6.0-16

New Features

SSL

Added the ability to replace the administrative SSL certificate with a User specified certificate.

Issues Resolved

387 - *isetup*

Now able to access Network Configuration in isetup.

390 - *SSL ID Persistence*

Now displays under a generic VS.

- *HA*

Corrected issue with HA preferred not turning off once set.

- *Healthchecking*

Small fix – ticket 1013614

Known Issues

None

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Release 6.0-15

New Features

L7 Timeout

The timeout waiting for clients has been increased from 20 to 30 seconds.

SNMP

SNMP trap is now sent to indicate that a license has timed out - a new MIB is also available..

Issues Resolved

384 - *Additional Ports*

Adding extra ports corrected.

383 - *HA-1 Address*

Changing eth0 no longer locks out a User..

378 - *VS Disable*

Disabling VS' no longer disables the RS.

385 - *Layer4*

Under Layer4, "Alternate Source address" no longer shows.

379 - *HA-2 Setup*

Requires a reboot before HA-2 is accessible.

Known Issues

None

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Release 6.0-14

New Features

Source IP HASH Scheduling

Instead of using the weights or doing round robin, a hash of the source IP is generated and this is used to find the correct real server. This means that the real server is always the same from the same host. You don't need any source IP persistence

LM-5600

Fix for extra ports and MAPing for the 5600.

Issues Resolved

None

Known Issues

None

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Release 6.0-13

New Features

CPU Efficiency

Improved threading and compression.

Source IP Limiting

If you limit a network, all hosts on the network count towards the limit, in the previous version each host would have separate limits

New Persist

This is the same as superHTTP BUT it also appends the source IP address to the string, thus improving the distribution of the resulting HASH.

HASH Function

The hash function for string persistency types (i.e. non sourceIP) has been improved, it will give a better distribution and fewer clashes

Persistency Timeout

Can now be increased up to one week.

Internal Addressing

Improved handling of internal addresses.

LM-5600

The installable CD-ROM will now allow installation on the 5600.

Issues Resolved

374 - L4

Text corrected after switching to L4

375 - L4

Cannot switch to L4 with IPv6 VS.

Known Issues

None

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Release 6.0-12

New Features

L7 Network Pages

Yes/No buttons have been replaced by checkboxes..

Client Limiting

It is possible to set a limit of the number of connections per second from a given host. (limit up to 100K is allowed).

After setting the "default limit" to a value, the system allows you to set different limits for specific hosts / networks

so you can limit a network and / or host. If you set a network and a host on that network, the host should be placed first since the list is processed in the order that it is displayed.

Issues Resolved

None

Known Issues

None

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Release 6.0-11

New Features

None

Issues Resolved

342 - *User Lockout*

Prevent User locking themselves out creating a VIP on the loadmaster's wui ip (individual or shared)

364 - *Change ethh0 to IPv6.*

Maintains connectivity.

366 - *IP Address display boxes*

Large enough to handle a full v6 address.

367 - *gencheck*

Displays correct version.

368 - *Restore Configurations*

Can restore VS and LM base configuration..

Known Issues

None

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Release 6.0-10

New Features

Default Gateway

Can be set on any address on the interface, i.e. the primary or an additional address.

Automated Backups

The system may be configured to automatically perform backups on a daily or weekly basis.

Issues Resolved

316 - *Service Type*

When changing from HTTP to Generic service, the LoadMaster will remove all HTTP settings.

348 - *DR/GEO*

Allows for multiple nameservers.

363 - *Port 80 Redirect*

Port 80 re-director does now create redirect for "Alternate Address"

Known Issues

None

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Release 6.0-9

New Features

IPv6 Support

This is the first LoadMaster software that supports IPv6. Along with adding IPv6 colon separated addressing, we have overhauled many of the WUI screens, and added some key features below.

Issues Resolved

354 - Adding RS'

Unable to add RS's on networks made available by "Additional addresses".

357 - WUI Ping

WUI Ping function does not use DNS lookup.

359 - NTP Host

After setting NTP host, time is adjusted, but host field is cleared w/o adjustment popup.

263 - Reverse DNS

RS reverse DNS look up, not working.

Known Issues

None

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Release 6.0-8

New Features

IPv6 Support

This is the first LoadMaster software that supports IPv6. Along with adding IPv6 colon separated addressing, we have overhauled many of the WUI screens, and added some key features below.

Virtual Service Screen

This now has 5 sections that may be expanded by clicking the '+' sign, i.e. a typical tree view expand/contract, to be more economical on screen real estate.

Network Address Update

Changes to the network address takes effect in real time.

Certificates

There is now a new SSL certificate management page which allows the import of certificates and the association of a certificate to a VS. In addition, more than one VS can be associated with a certificate, and, the VS can have any certificate assigned to it.

FIPS Support

Requires a specific ASIC to be installed along with some other modifications. Contact KEMP support for more details.

Bind Persistency

Fully supports IPv6 functionality.

Issues Resolved

329 - *VLAN*

The Add/Delete buttons are disabled while waiting for VLAN to be created or deleted.

351 - *Change Network Address*

After changing the network address the LM does not require a reboot.

349 - *LoadMaster Exchange*

On factory reset the LM Exchange no longer loses preconfigured VS's

288 - *VS Ports*

VS was breaking when using Extra Porta feature on the same IP.

289 - *Server Initiating Protocol*

Better detection for common VS's.

Known Issues

None

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