Progress®
Kemp® LoadMaster®

LoadMaster 7.2.48.1 Release Notes

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Introduction

LMOS Version 7.2.48.1 is a bug-fix release made available in November 2019. Please read the sections below before installing or upgrading.

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Supported Models

This release of LMOS is supported on the Hardware and Virtual platforms specific in the first two columns of the table below. *It is not supported and should not be installed on any of the hardware and software listed in the two columns at right.*

Please note that the same update patch can be applied to any supported model regardless of:

- licensing (e.g., SPLA, MELA)
- platform (e.g., hardware, local cloud, public cloud)

Supported Hardware Models	Supported Virtual Models	UNSUPPORTED Hardware Models	UNSUPPORTED Virtual Models
LM-X3	**VLM-200**	**LM-2000**	**VLM-100**
LM-X15	**VLM-500**	**LM-2200**	**VLM-1000**
LM-X25	**VLM-2000**	**LM-2500**	
LM-X40	**VLM-3000**	**LM-2600**	
LM-2400	**VLM-5000**	**LM-3500**	
LM-3000	**VLM-10G**	**LM-3600**	
LM-3400	**VLM-GEO**	**LM-5300**	
LM-4000	**VLM-MAX**	**LM-5500**	

Supported Hardware Models	Supported Virtual Models	UNSUPPORTED Hardware Models	UNSUPPORTED Virtual Models
LM-5000		**LM-Exchange**	
LM-5400		**LM-GEO**	
LM-5600			
LM-8000			
LM-8020			
LM-8020M			
Bare Metal			

If your model number is not listed above, please see the list of End of Life models.

3

Upgrade Path

You can upgrade to this release of LMOS from any previous 7.2.x release. For full upgrade path information, please see the article Firmware Upgrade Path.

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Issues Resolved

The following issues, all of which were new in LMOS 7.2.48.0, have been resolved in this release.

PD-14112	**SSO:** Server side Form-Based authentication doesn't work on VS with WAF and ESP. This bug has been fixed.
PD-14054	**Virtual Services with Wildcard URLs**:Traffic running through a Virtual Service with a wildcard URL may cause the LoadMaster to reboot. This issue has been fixed.
PD-14047	**UDP Virtual Services**: UDP services on port 53 that use the Layer 7 non-transparent mode do not work correctly. This issue has been fixed.
PD-14046	**Bare Metal**: On certain bare metal LoadMasters, network interfaces no longer work after upgrade to 7.2.48. This issue has been fixed.
PD-14038	**API**: The PowerShell API "Remove-SplaInstance" is broken due to changes in the RESTful API "kill_spla_instance" response. This issue has been fixed.
PD-14036	**API**: The PowerShell API "Get-LicenseType" is broken due to changes in the RESTful API "alsilicensetypes" response. This issue has been fixed.
PD-14028	**Licensing**: After upgrade to 7.2.48, Trial LoadMasters have the 'Offline Licensing' option grayed out (non-selectable) on the 'Update License' page. This issue has

been fixed.

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Existing Known Issues

The following known issues appeared in the *Release Notes* for the previous release.

PD-14100	**ESP SSO:** After login through the LoadMaster Single Sign On Outlook Web Access forms, the user is immediately logged out.
PD-13904	**SSO**: Password expiry notifications do not currently work with Forms Based Authentication (FBA) enabled on the server side.
PD-13873	**10 Gb Interfaces (AWS only)**: The AWS driver for 10 Gb interfaces (ENA) does not provide a link indication in its output, and so 'No Link' is the status displayed for a 10 Gb interface on AWS. Interface graphs for 10 Gb interfaces on the statistics page are not scaled properly, and so can run off the display; this will be addressed in a future release.
PD-13385	**WAF**: With WAF enabled on a Virtual Service, HTTP PUT commands that use chunked transfer encoding are dropped. This issue will be fixed in a future release.
PD-12838	**ESP / SSO**: The ESP **Permitted Group SID(s)** setting is not working as expected when configured on a SubVS.
PD-12653	**Networking**: A Hyper-V VLM won't boot when a 4th NIC is added.
PD-12616	**WAF / Compression**: With Web Application Firewall (WAF) enabled, compressed files are incorrectly decompressed. As a workaround, ensure compression is enabled in VS Advanced Properties by selecting the **Enable Compression** option.
PD-12492	**Downgrade**: If an **Azure VLM** is downgraded to the LTS firmware release (7.1.35.x), the WUI may display in the top right-hand corner that the VLM is a **Hyper-V VLM**. This indicates that the **Azure VLM Add-On**

	Package must be added to the system to provide full Azure VLM functionality. If this occurs, please contact Kemp Support to get the required add-on package.
PD-12354	**Hardware Support**: The LoadMasters LM-X25 and LM-X40 do not support the following SFP+ modules in this release: LM-SFP-SX (SFP+ SX Transceiver 1000BASE-SX 850nm, 550m over MMF), LM-SFP-LX (SFP+ LX Transceiver 1000BASE-LX 1310nm, 10KM over SMF).
PD-12237	**HA / NTP**: Configuring NTP for the first time *after* the system is running in High Availability (HA) mode *and* when the current time on the machines is not correct, may cause the systems to both go into the Master state.
PD-12147	**ESP / RADIUS**: In a LoadMaster configuration with ESP and Radius server-side authentication enabled, sessions may fail to be established.
PD-12058	**Browser Support**: An issue exists when connecting to the LoadMaster WUI when using newer versions of the Firefox browser on initial configuration of a hardware FIPS LoadMaster.
PD-11861	**RADIUS / IPv6**: IPv6 is not supported by the current RADIUS implementation in the LoadMaster for both WUI Authorization and ESP Authentication.
PD-11166	**Networking**: Azure LoadMasters are not translating the additional network address between the Master and Slave correctly.
PD-11044	**SharePoint Virtual Services**: A second authentication prompt is presented when a file is uploaded to SharePoint with the following configuration: WAF is configured with **Process Responses** enabled on the main Virtual Service and KCD is enabled on the SubVS level for server-side authentication.
PD-10917	**HA**: An issue exists when setting up a 2-armed HA Virtual LoadMaster in Azure.
PD-10784	**HA**: Configuring LoadMaster HA using eth1 on an Amazon Web Services (AWS) Virtual LoadMaster does not work.
PD-10586	**GEO**: If a GEO FQDN is configured with **All Available** as the **Selection Criteria**, IP addresses are returned even if the cluster is disabled.
PD-10490	**Content Rules**: The *vsremovewafrule* RESTful API command does not allow multiple rules to be removed.
PD-10474	**Intrusion Detection**: A SNORT rule is triggering a false positive in certain scenarios.
PD-10466	**Hardware Support**: The LoadMaster LM-X15 does not support the following SFP+ modules in this release: LM-SFP-SX (SFP+ SX Transceiver 1000BASE-SX 850nm, 550m over MMF), LM-SFP-LX (SFP+ LX Transceiver 1000Base-LX 1310nm, 10KM over SMF).
PD-10193	**Exchange 2010 Virtual Services**: A WAF, ESP, and KCD configuration with Microsoft Exchange 2010 is not supported.
PD-10188	**Browser Support**: (Safari) When adding a Real Server to a Virtual Service or SubVS using the Safari browser, the list of available Real Servers is not available.
PD-10159	**Statistics**: When upgrading firmware from version 7.1.35.*n*, CPU and network usage graphs are not appearing. As a workaround, reset the statistics in the WUI.
PD-101	**Clustering**: In a LoadMaster cluster configuration, a new node can be added with the same IP address as

36	an existing node.
PD-10129	**Virtual Services**: There is a discrepancy in validation between global-level connection timeout and Virtual Service-level timeout.
PD-9854, PD-13385	**WAF**: When WAF is enabled, any requests received that have chunked transfer encoding enabled (e.g., POSTs) are not processed properly and are not forwarded to a real server.
PD-9816	**WAF**: There is an API command to list individual rules in a ruleset, but there is no command to list the available rulesets themselves.
PD-9765	**GEO**: DNS TCP requests from unknown sources are not supported.
PD-9507	**Networking**: Unable to add an SDN controller using the RESTful API/WUI in a specific scenario.
PD-9476	**WAF**: There is no RESTful API command to get/list the installed custom rule data files.
PD-9375	**SharePoint Virtual Services**: Microsoft Office files in SharePoint do not work in Firefox and Chrome when using SAML authentication.
PD-8853	**GEO**: **Location Based** failover does not work as expected.
PD-8725	**GEO**: **Proximity** and **Location Based** scheduling do not work with IPv6 source addresses.