



LoadMaster 7.2.48.1 Release Notes

24 July 2024

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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.

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	
LM-5000		LM-Exchange	

Supported Models

Supported Hardware Models	Supported Virtual Models	UNSUPPORTED Hardware Models	UNSUPPORTED Virtual Models
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](#).

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](#).

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-SplnInstance" 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.

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 <i>after</i> the system is running in High Availability (HA) mode <i>and</i> 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 <i>vsremovewafrule</i> 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-10136	Clustering: In a LoadMaster cluster configuration, a new node can be added with the same IP address as 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.