



NetMRI 7.5.4 Release Notes

CONTENTS

- Introduction 2**
- New Features and Improvements 2**
- Deprecated and Obsolete Features 2**
 - Deprecated Features 2
 - Obsolete Features 2
 - Planning for Deprecated and Obsolete Features 3
- Device Support Updates 3**
- Guidelines for Performing Upgrades 3**
 - Pre-upgrade Hotfix for OC-Collector Setup 4
 - A Note on External Authentication and Authorization Services 4
 - Upgrading Sandbox Instances 4
- Other Requirements 5**
 - Tested Versions of Web Browsers 5
 - Supported Hypervisors 6
- Technical Support 6**
 - Product Support 6
 - Documentation 6
 - Training 6
- Resolved Issues 7**
 - Fixed in NetMRI 7.5.4 7
 - Fixed in NetMRI 7.5.4 Documentation 9
- Known Issues 10**

Introduction

All existing customers have the option to upgrade their deployments to the auto-failover configuration for standalone, operations center, and collector appliances.

The following sections describe new features, supported devices, guidelines for upgrading devices, resolved issues, and known issues for the current release.

NOTE: Active penetration and vulnerability scans are conducted as part of the security testing. We have fixed all reported and discovered vulnerabilities related to SQL injections, and we have found and fixed a number of high-severity vulnerabilities. We will fix lower-severity vulnerabilities in the upcoming releases. To be exploited, all vulnerabilities require an authenticated user to initiate the action. Based on our knowledge and testing capabilities, we are unaware of exploits conducted by unauthenticated users.

New Features and Improvements

The following new features and improvements are included in this release of NetMRI:

- You can now use the Audit Log to track all requests made to APIs.
- You can now use APIs to discover devices on Juniper Mist, which is an SDN/SD-WAN solution from Juniper.
- You can now enable automatic failover on NetMRI VMs.
- You can now use external sandbox images, which are based on Ubuntu 20.04.

For more information, see [Resolved Issues](#).

Deprecated and Obsolete Features

This section describes the features no longer supported in this release or planned for removal in future releases. These are the features that have not been adopted by customers or have been used only for specific cases in the past. NetMRI contains a rich set of features; to ensure that the focus remains on improving the features that are in use, we have trimmed many existing features and added new ones in areas where the number of use cases is growing.

Deprecated Features

Deprecated features are features skipped during release qualification. The code for them has not changed but might be removed in future releases.

There are no deprecated features in NetMRI version 7.5.4.

Obsolete Features

Because the SSH client has been upgraded, NetMRI 7.4.4 has dropped support for the following:

- SSH protocol version 1, associated configuration options, and documentation
- hmac-ripemd160 MAC
- ARCFOUR, Blowfish, and CAST ciphers
- RSA keys shorter than 1024 bits

NetMRI 7.5.4 Release Notes

- Compatibility support for some very old SSH implementations, including ssh.com <= 2 and OpenSSH <= 3

These versions were released in or before 2001 and predate the final SSH RFCs. The support for them is not necessary for RFC-compliant implementations of SSH.

If you get the “no matching cipher” error when attempting to connect to devices from NetMRI over SSH, use the `configure ssh` command to adjust the list of ciphers.

Planning for Deprecated and Obsolete Features

This release does not contain features that are candidates for becoming deprecated or obsolete in future releases.

Device Support Updates

The following devices are newly supported for release 7.5.4:

Vendor	Model	Type	OS or Firmware
Nortel	ERS-4850GTS-PWR-PLUS	Switch-Router	5.11.2.013
Palo Alto Networks	PA-3260	Firewall	8.1.19
Huawei	S5731-S48P4X	Switch-Router	V200R019C10SPC500
Mellanox	SH2200	Switch-Router	3.6.8008
Cisco	N77c7710	Switch-Router	8.4(2)
H3C	LS-6820-4C	Switch-Router	7.1.070

Guidelines for Performing Upgrades

The file with the upgrade image is `ib_network_automation-7.5.4.XXXXXX.gpg`.

The following table provides guidelines and use cases for upgrading previous versions of NetMRI to 7.5.4.

Version	Guidelines
6.9.x or earlier	Follow this upgrade path: 7.0.5 > 7.1.4 > 7.4.5 > 7.5.4.
7.0.x 7.1.x	Upgrade to 7.1.4, then to 7.4.5, and then to 7.5.4.

NetMRI 7.5.4 Release Notes

7.2.x	Upgrade to 7.4.5 and then to 7.5.4.
7.3.x 7.4.x 7.5.x	Upgrade to 7.5.4.
HA system running 7.1.[2-4]	Before performing the upgrade, apply one of the v7.1.[2-4]-NETMRI-30000.gpg hotfixes available on the AutoUpdate server. When applying a hotfix, ignore the reference to 7.1.4-NETMRI-30000.
HA system running 7.3.2, 7.3.3, or 7.4.[1-4]	Before performing the upgrade, apply the NETMRI-33842.gpg hotfix for the appropriate NetMRI. These hotfixes are available on the AutoUpdate server. When applying the hotfix, ignore the reference to NETMRI-33842.

In communications between an operation's center controller and a collector, all collected network data passes from the collector to the controller through a tunnel. Because the tunnel is shut down during the upgrade, data collection is shut down in operations centers.

Pre-upgrade Hotfix for OC-Collector Setup

All NetMRI appliances in an OC-Collector setup require a pre-upgrade hotfix. To install the hotfix while upgrading an OC-Collector setup to version 7.5.4, refer to the "[Pre-upgrade Hotfixes for NetMRI 7.5.4 OC-Collector Setups](#)" in the Support portal.

A Note on External Authentication and Authorization Services

If you are using external authentication over SSL, ensure it supports TLS 1.2 before upgrading NetMRI.

Upgrading Sandbox Instances

Before starting an upgrade, ensure that all local and remote sandboxes are fully and properly upgraded or reinstalled on the starting release version. If a sandbox is in an incorrect state prior to a follow-on upgrade, issues that are difficult to diagnose might arise.

Local sandbox instances for NetMRI are upgraded automatically.

Remote sandbox instances (such as those on a VM server) must be reinstalled manually in the following instances:

- Upgrading between major versions, for example, from 7.3.3 to 7.4.1.
- Upgrading to 7.4.5, which is a minor version.
- Updating from 7.5.0 or 7.5.1 to 7.5.2 or later.

Release version 7.5.4 has an external Sandbox image based on Ubuntu 20.04. When upgrading between minor versions, such as 7.4.1 to 7.4.2 and 7.5.3 to 7.5.4, redeployment of the remote sandbox is not required.

To reinstall a remote sandbox instance, perform the steps below:

NetMRI 7.5.4 Release Notes

1. Download a new Sandbox VM file from Infoblox.
2. In the administrative shell, run the `sandbox deregister` command for the previous remote sandbox.
3. After the NetMRI upgrade is complete, deploy a new instance of the sandbox image.
4. In the administrative shell, register the new instance with the `sandbox register` command.

For more information, refer to the topics *Using the NetMRI Sandbox* and *Setting Up a Remote Sandbox* in the online Help.

To extend the size of an image and of an internal swap partition for the local sandbox, manually execute the `sandbox reset` command after the upgrade. Any changes made to the sandbox (for example, additional libraries installed) will be lost during this process.

Other Requirements

Tested Versions of Web Browsers

NetMRI 7.5.4 has been tested with the following web browsers:

OS	Browser
Microsoft Windows 7®	Microsoft Internet Explorer® 11.x Mozilla Firefox 63.x Latest version of Google Chrome
Microsoft Windows 8.1®	Microsoft Internet Explorer 11.x, Edge Mozilla Firefox 63.x Latest version of Google Chrome
Microsoft Windows 10	Microsoft Internet Explorer 11.x, Edge Mozilla Firefox 63.x Latest version of Google Chrome
Apple® Mac OS X 10.13.6	Safari 13.0.5

NOTE: Internet Explorer 11 does not render Topology Viewer well. Topology Viewer requires a browser that supports the ES6 standard (ECMAScript 2015 and later), but IE11 does not support this and later standards.

Infoblox has removed the “The browser you are using is not supported” warning. Occasional issues with display might occur because these browsers go through rapid release cycles. We expect that the coding of browsers is compatible with NetMRI and that highlighting the version difference in red during every login is no longer necessary.

When viewing NetMRI, set the following screen resolution on your monitor:

- Minimum: 1024x768

NetMRI 7.5.4 Release Notes

- Recommended: 1280x800 or better

Supported Hypervisors

Infoblox offers NetMRI in a VM version. The following hypervisors support NetMRI 7.5.4 on VMs:

- VMware ESXi 5.5, ESXi 6.5, ESXi 6.7, and ESXi 7.0
- OpenStack Victoria and OpenStack Wallaby

Technical Support

Product Support

Telephone:

- Toll-free number for the US and Canada: 1-888-463-6259
- EMEA: +32 3 2590440
- US: +1-408-986-4000, ext. 1

Email: support@infoblox.com

Web: <https://support.infoblox.com>

Documentation

The latest documentation is available on docs.infoblox.com.

Training

Training information is available on <https://training.infoblox.com>.

NetMRI 7.5.4 Release Notes

Resolved Issues

The following table describes the issues that were reported in previous NetMRI releases and fixed in this release.

Fixed in NetMRI 7.5.4

ID	Summary
TOPOV-70	When multiple device groups were selected to filter the topology view, it did not highlight all selections and did not show the option to hide the deselected groups in the custom view.
TOPOV-59	Some fields in the settings for the topology viewer were indented inconsistently.
NETMRI-35484	It was not possible to import a file with CLI credentials to an Operations Center via API.
NETMRI-35441	The privilege to use the NetMRI Discovery Diagnostic feature tool was set incorrectly.
NETMRI-35428	During weekly maintenance, the system occasionally hung when it was overloaded.
NETMRI-35412	Users with the Polling Admin role did not have access to all options on the Device Viewer menu.
NETMRI-35406	Reports were canceled when the Vlan: Root Bridge Name field was added.
NETMRI-35401	Due to changes in physical components, frequent email notifications were received from APC PDU devices.
NETMRI-35396	If the report had the column Interfaces: control capabilities, the column was empty.
NETMRI-35388	When you navigated from Switch Port Management > View Device History , the Device History menu was not selected.
NETMRI-35384	An attempt to change the parent group of a device group to a non-existing parent group via an API request resulted in an error message.
NETMRI-35381	The Selected Files box disappeared from Comparing Configuration Files .
NETMRI-35379	The expand/collapse checkbox was not displayed for parent device groups.
NETMRI-35343	The SSH and Telnet Port checks returned incorrect results even when both ports were disabled on a device.
NETMRI-35341	Upgrades failed when duplicate device groups with distinct hash IDs were present.
NETMRI-35326	The DNS processor did not remove any domain names.



NetMRI 7.5.4 Release Notes

NETMRI-35278	A virtual device was discovered as physical if it had multiple serial numbers for a chassis.
NETMRI-35274	Under the CLI collection, MFR interfaces were not collected from Cisco devices.
NETMRI-35272	The pages for security settings could be accessed without the proper permissions.
NETMRI-35266	If the advanced setting FQDN was empty, the Issue Details report was not executed.
NETMRI-35260	Some scriptxml logs were absent from the collectors.
NETMRI-35259	An incorrect policy rule was displayed on the edit page of the Triggered Job Wizard .
NETMRI-35251	The Triggered Job Wizard's preview page displayed an incorrect device group.
NETMRI-35238	The state of the Privileged Polling option could not be set to disabled.
NETMRI-35237	The configuration page for Syslog Forwarding failed to load in an Operations Center with no collectors.
NETMRI-35235	Occasionally, CLI authentication failed due to the presence of an HTTP config collection.
NETMRI-35230	Scheduled jobs could be copied and deleted even without the Schedule privilege.
NETMRI-35220	Disabling the Switch Port Data collection for a Device Group did not affect SPM polling for SDN devices.
NETMRI-34687	Launching the test authentication service without adding a server was possible.
NETMRI-34686	In Device Viewer > Settings & Status > SNMP Credentials , the Use SNMPv1/v2 and Use SNMPv3 checkboxes could not be selected in MacOS Safari 14.1.1.
NETMRI-34435	The displayed values of PoE ports were incorrect.
NETMRI-34267	Unable to save Syslog Forwarding settings after adding two test hosts and then removing the second host.
NETMRI-34144	When trying to configure a remote system, Database Settings-related operations (such as Archive Database, Scheduled Archive, and Remote Config Archive) failed to work with IPv6 addresses.
NETMRI-34003	The search field did not accept non-alphanumeric characters.
NETMRI-34401	During an upgrade, no remote backup was created.
NETMRI-33733	Virtual devices were identified as physical.



NetMRI 7.5.4 Release Notes

NETMRI-32989	Policies were not deployed when you selected All Devices on the Config Management > Policy Design Center > Policy Deployment page.
NETMRI-32938	Positive messages about free storage were delivered in the Network Health Alert but not displayed on Notifications > System Message .
NETMRI-32914	Hiding the Message column increased the height of expanded rows that contained errors and warnings.
NETMRI-32579	The positive message from the Network Health Alert did not appear in Notifications > System Message .
NETMRI-32227	The "System Health" and "Available Space" alerts contained incorrect information about available free space.
NETMRI-30902	Some text buttons were difficult to read.
NETMRI-30431	The email notification option did not work in the Support Bundle Wizard.
NETMRI-30349	The Interfaces > Ports Present page did not clearly indicate whether it was showing all ports or only free ones.
NETMRI-29716	The maximum number of database archives specified in Settings > General Settings > Advanced Settings > Database Archives was removed since it did not perform as intended.
NETMRI-29212	The Device Viewer > Interfaces > Address Table was not hidden for Cisco ACI.
NETMRI-6319	In the Audit Log page, the HTML tags were exported with the CSV file.

Fixed in NetMRI 7.5.4 Documentation

ID	Summary
NETMRI-35492	If ping sweep was enabled on the subnet of IPs excluded from Discovery, it would continue to transmit packets across all protocols, so excluded IPs would not stop transmitting packets.

NetMRI 7.5.4 Release Notes

Known Issues

The following lists are notable bugs or potential improvements found by Infoblox or reported by customers. These are candidates for future maintenance or major releases. For information on specific tickets, please contact Technical Support.

ID	Summary
NETMRI-35533	The Reached status of unreachable Cisco Meraki and Juniper Mist devices is not changed to red.
NETMRI-35510	In Network Explorer > Inventory > Models , the serial number of the chassis is not displayed for virtual (child) devices.
NETMRI-35485	Field “Type” column in the pop-up menu Filters in Network Explorer > Inventory considers only the first entry.
NETMRI-35468	After the system is reconfigured and the UI is started, the system displays the message about expiration of the license and then the message about restart of service.
NETMRI-35443	NetMRI attempts to validate HTTP credentials while HTTP polling is disabled.
NETMRI-35385	An attempt to create groups with recurring dependencies might result in an internal server error.
NETMRI-35374	The “Undefined method ‘auth method’ for nil:NilClass” error message is displayed when an attempt is made to copy authentication services.
NETMRI-35077	Unable to log in to NetMRI when the PKI authentication is enabled.
NETMRI-34843	Upgrade to OpenSSL 3.0 FIPS version from OpenSSL 1.0.2j-FIPS version.
NETMRI-34597	NetMRI uses an old version of the Phusion Passenger framework, 3.0.21, which has known vulnerabilities.
NETMRI-34550	When the installation of a device support bundle fails, the system continues to make attempts to install it and turns off data collection.
NETMRI-34549	Because NetMRI does not close sessions properly, it causes Viptela to overload.
NETMRI-34461	Unable to define an SSH or a Telnet custom port in a CSV file that is used to import device credentials in the Settings icon > Setup > Credentials page.
NETMRI-34430	The <code>hpacucli</code> command sometimes stops responding, and this causes systemd to stop responding and prevents a reboot.



NetMRI 7.5.4 Release Notes

NETMRI-34427	After the referenced registered collector is replaced, the statuses of the devices change to Unmanaged or Unlicensed .
NETMRI-30616	When NetMRI uses SNMPv1 for polling on devices that support High Capacity counters, unicast counts are set to zero.
NETMRI-30460	Reports that take longer than 5,000 seconds do not send email notifications.
NETMRI-28959	Running discovery diagnostics in the Operations Center does not display data in the Device 90 Day History section.