Live**Action**

LiveNX 25.2.0 New Features

QUICK GUIDE

Device Monitoring

Overview

Device Monitoring provides comprehensive device monitoring for all devices along with current diagnostic capabilities.

- Responsive SNMP data collector that loads file-based configuration to customize the OIDs to poll per vendor, model, even specific device
- Support CPU and memory, with other metrics planned for future releases
- Many vendors and modes are supported out-of-the-box by the built-in metric definition file
- Support for additional vendor and models can be added through additional metric definitions without need to upgrade LiveNX

Enter Filter Request Here	Network Devices									14
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Device Details Page

Device Montoring	(UnRE)							A4 A0 B0 0
Device monitoring / Network do	ovkan /							
ISR_router01								
	Critical 1 Error 0	Hostname Management Address	ISR_router01 10.244.29.240	OS Last Seen		IOS_XE 17.6.4		
Tetal	Warning 0 Binto 0	Vendor Model	Classo ciscol/SR4321	Last Backu Up Time	p	1		
System Interfaces								
~ CPU								
Namo		Usage %			Average %		Min %	Max %
Core 0 (Control Plane)				21	34		30	38
Core 1 (Data Plane)				10	45		40	52
Core 2 (SNMP Agent)				10	20		15	22
Core 3 (Logging)				12	21		14	24
~ Memory								
Туре		Usage					Used %	
Available memory		12.558 / 12566 (10%)					10	
Batters		18.7508 / 12508 (15%)					15	
Phiskal memory		31,2508 / 12508 (25%)				-	25	
A Storage								

Cloud Monitoring Enhancement

- Microsoft Azure NSG flow logs are going away. We now support VNET flow logs
- We now import VWAN and VHUBs from Azure
 - CM LiveNX Mapping
 - VWANS become sites
 - VHUBS become devices (contained within sites)
- Got rid of the CEC licensing
 - LiveNX still needs to be licensed
 - Need device licenses to handle the cloud "devices"

Server High Availability

Overview

LiveNX 25.2.0 adds a basic High Availability service to the LiveNX Server only, allowing a customer to sync Server state and settings from a "Primary" Server to a "Secondary" Server. The Secondary Server will not be running LiveNX processes until the customer manually promotes it to Primary Server.

Limitations

- Data loss from a Node failure is not prevented
- There are no alerts on failure of Primary Server
- There are no alerts if sync stops working
- Data loss due to human error or corruption is not prevented
- NFS filesystems <v4.2 or v4.2+ are not supported without xattr support enabled

Warnings

- It is possible that the synced configuration could be in a corrupt state at sync time. The Secondary Server is not guaranteed to work when promoted.
- When promoting the Secondary Server to Primary Server, Customer will be required to manually change the IP of the Secondary Server to the IP of the Primary Server. This requires deploying them in the same subnet.
- A license is not required to run HA sync. If a customer has a failure but has not acquired a license for the secondary server, LiveNX support turnaround time will affect how quickly they are back in normal operating mode.

Usage of hactl

The services and timers that enable the HA feature are masked (linked to /dev/null) when shipped to the customer. This reduces the risk of running them by mistake.

hactl is a python script included in the LiveNX image and available on the \$PATH. It is used to setup sync, promote the secondary server, disable sync, disable the primary server, or reenable the primary server. It must be run via sudo or from the root user.

```
1 $ hactl --help
 2 Usage: hactl [OPTIONS] COMMAND [ARGS]...
 3
 4
     LiveNX HA Command Line Interface (CLI)
 5
 6 Options:
 7
     --help Show this message and exit.
 8
9 Commands:
10
     disable-primary Stop HA sync and LiveNX processes.
11
   disable-sync Disable HA sync.
12 promote
                    Promote Secondary Server to Primary
13 reenable-primary Restart LiveNX processes only.
                     Set up HA sync to the secondary server.
14
    setup
15
16
17 $ sudo hactl setup --help
18 [sudo] password for admin:
19 Usage: hactl setup [OPTIONS]
20
21
     Set up HA sync to the secondary server.
22
23 Options:
24
    -s, --secondary-server TEXT Hostname/IP of the secondary server.
25
                                    [required]
26
     -i, --interval-minutes INTEGER Interval in minutes to run HA sync. Default:
27
                                    60 minutes.
28
     --help
                                    Show this message and exit.
```

Setup Sync

sudo hactl setup [-s, --secondary-server secondary-server] [-i, --interval-minutes syncinterval] (Run on Primary Server)

setup configures both the Primary and Secondary Servers, and starts the services on each Server that sync the data.

Promote Secondary

sudo hactl promote (Run on Secondary Server)

promote changes a Secondary Server into a Primary, and should be run when the Primary Server has failed. It stops the sync and starts LiveNX services.

```
Note Before running sudo hactl promote, sync should be disabled by running sudo hactl disable-primary on the Primary Server.
```

The Secondary Server is required to have the same IP that was previously used by the Primary Server. The Primary Server should either be shut down or have its IP changed before running sudo hactl promote. The Secondary Server IP can be changed by running sudo network-setup.

LiveNX should not be running on the Secondary Server prior to running this command. If it is

running while sync is active, file will be corrupted and LiveNX is unlikely to work at all.

If the customer does not have a LiveNX license installed on the Secondary Server, they will need to go through LiveNX Support to get a new license before they can actually use the Server.

To setup sync from the new Primary Server, provision a new Secondary LiveNX Server and run sudo hactl setup from this server.

Disable Sync

sudo hactl disable-sync (Run on Primary Server)

Run sudo hactl setup to set up sync again.

Disable Primary

sudo hactl disable-primary (Run on Primary Server)

Since the Primary Server IP is needed, shutting the Primary Server down or changing its IP via sudo network-setup should be done after running this.

Reenable Primary

sudo hactl reenable-primary (Run on Primary Server)

Troubleshooting and Logs

livenx-ha-primary.service and livenx-ha-secondary.service both log to the Systemd journal. Their logs can be accessed via journalctl:

- o sudo journalctl -u livenx-ha-primary.service
- ° sudo journalctl -u livenx-ha-secondary.service

In LiveNX 24.2.0, Systemd journals are not persistent. If you need to read through logs after a reboot, look through / var/log/syslog:

o sudo grep livenx-ha-secondary /var/log/syslog | less

You can also use systemct1 to determine status of the ha services and timers:

- Services: find out when they last ran, if they exited without error, etc.
 - ° sudo systemctl status livenx-ha-primary.service
 - ° sudo systemctl status livenx-ha-secondary.service
- Timers: find out if they are running, when they last triggered, when they will trigger next, etc
 - sudo systemctl status livenx-ha-primary.timer
 - ° sudo systemctl status livenx-ha-secondary.timer
 - Example output:

```
1 $ sudo systemctl status livenx-ha-primary.timer
2 • livenx-ha-primary.timer - LiveNX HA Service, Primary Server Timer
3
        Loaded: loaded (/lib/systemd/system/livenx-ha-primary.timer; enabled; vendo
4
       Drop-In: /etc/systemd/system/livenx-ha-primary.timer.d
5
                L-override.conf
6
        Active: active (waiting) since Fri 2025-06-06 21:29:20 UTC; 13min ago
7
       Trigger: Fri 2025-06-06 21:43:49 UTC; 1min 5s left
8
      Triggers: • livenx-ha-primary.service
9
10 Jun 06 21:29:20 livenx systemd[1]: Started LiveNX HA Service, Primary Server Tim
```

LiveAssist Data Source - Device Inventory

Overview

Customers may want to ask LiveAssist questions about their inventory. This may be things like "what are my cisco devices?" or "how many WAN interfaces do I have?" If device inventory information is sent to LiveAssist, LiveAssist is now able to answer these questions.

Device Inventory Data

The information sent to LiveAssist includes the following:

- Devices
 - Name
 - Model
 - OS version
 - Tags
 - Site, WAN, etc
- Interfaces
 - Name
 - Tags
- Sites
 - Site IP mappings

Note The list is not comprehensive of all data sent to LiveAssist, it is just a subset.

Enabling the Data Source

A new **Device Inventory** check box has been added to the Network Configuration page. In addition, we have grouped all "NX Application Data" together to help users understand which data sources are related to LiveNX specifically and enable them all in a single button click.

- Inventory is sent on start up
- Inventory is resent every 5 minutes
- Inventory is sent up on configuration change

NETWORK CONFIGURATION

Liv	eNX REST API Token *
p	hq0VjF44ij/FPNCqK9jdBv8N40Jm0rZrRACUb3RY9M=d
Liv	reAction Otel Configuration 🚯
~	Findings
~	NX Application Data
	🗹 Tags 🔽 User Activity 🔽 Alerts 🔽 Root Cause Assist 🔽 Device Inventory

LiveAssist

• Ask questions in LiveAssist!

Create new chat evious 30 days how many cisco devices do 1 have? Which sites are having the most issue.	+ how	many cisco devices do I have? You have 5 Cisco devices e € many wan interfaces do I have in the system? You have 10 WAN interfaces			
evious 30 days how many cisco devices do I have?	P	You have 5 Cisco devices e e many wan interfaces do I have in the system? You have 10 WAN interfaces			
how many cisco devices do I have?	how	e e many wan interfaces do I have in the system? You have 10 WAN interfaces			
Which sites are having the most issue 🏈	how LA	many wan interfaces do I have in the system?			
		You have 10 WAN interfaces			
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LiveAssist - Easy Onboarding

Overview

Customers are now able to self-register for LiveAssist.

Requirements

A customer must have the following in order to register for LiveAssist:

- A valid LiveNX **license**
- An **email** address
- Be an **admin** within LiveNX

Workflow

Any admin can navigate to the LiveAssist configuration page to register for LiveAssist.

- 1. Click "Register"
- 2. Fill out form with email and company.
- 3. The hostname can be skipped. It is pre-populated with the correct value.
 - Only in edge cases will this value need to be changed.
- 4. The bypass proxy only matters for customers who have a proxy configured.
 - If no proxy is configured the setting does not matter.
- 5. "Submit" the inputs
 - A successful response message will be returned on successful submission

• On failure (e.g., invalid license, an error message will be displayed)

REGISTER	>
Email *	
Email	
Confirm Email *	
Confirm Email	
Company *	
Company	
Hostname *	
ani platform liveration com	

Once submitted, LiveAction will provision a system for the customer and email them the appropriate credentials via the email that they have provided.

The email will have all the necessary artifacts to use LiveAssist such as:

- User name
- Password
- Token
- OTEL LiveAssist endpoint URI
- Customer ID

Firewall Configurations

The following **hostnames** must be reachable from the LiveNX appliance:

- The hostname specified during registration (default: api.platform.liveaction.com: 443)
- OTEL configuration telemetry.platform.liveaction.com:443

Internal Workflow

Behind the scenes, action must be taken by BlueCat employee to provision an instance.

Caveats

- Users who have already registered will see the **Register** button on the credential page if their connection is invalid.
- There is currently no way to check the status of the registration request. Users will need to wait for the email with info.

LiveAssist RCA Status Message Improvements

Overview

Messaging about the status of root cause assists (RCA) has been improved.

Enhanced Status

Additional status states to root cause assists (RCA) have been added. This help customers to better understand the current state of their RCA rather than always seeing a generic "Root cause assist in progress... Please check back later for the results." message.

State	Meaning	Example Message
UNKNOWN	LiveAssist has no information about the alert ID in question. Possibly because the alert data has not been sent from LiveNX.	The system cannot determine the current status of this alert.
PENDING	There is information for the alert but no RCA has been attempted yet. This could be due to waiting for the timer task to trigger or the platform not having enough resources to tackle this yet.	The alert is queued and waiting to be processed.
FAILED	RCA has attempted to run but has failed. This could be due to insufficient information.	The alert processing has failed due to lack of data.
SUCCESS	RCA is completed.	The alert was successfully processed without any errors.
NOT_APPLICABLE	The alert ID in question should not have an RCA.	The alert does not require processing based on its configuration.

Examples

Application Performance	ormance - App Delay ×
Status & Time	
Status:	Active 🗸
Time opened:	18 Jun 2025, 11:19 PM
Active for:	less than a minute
Source Info	
Site:	Micro
Device:	MICRO-CSR-15.sd.liveaction.com.
Conversation:	TCP 10.2.101.25:445 to 192.168.2.208
Server Site:	Unspecified
Client Site:	Unspecified
Event:	Report
Description	
MICRO-CSR-15.sd.liveac application cifs	tion.com. had 61.00 ms application delay for the
Details	
Configured Threshold:	50.00 ms
Latest Average Application Flow Delay:	61.00 ms
Al Analysis Levels:	Basic Analysis, Root Cause Assist
Average:	10.0
Configured o Multiplier:	5.0
Initial Average Application Flow Delay:	61.00 ms
Application:	cifs
AI Diagnostics 🚯	
Summary:	The alert is queued and waiting to be processed.
Cross Launch	
Packet Inspection:	LiveWire 🗮
Notes	
Notes	

LiveAssist Enhancements

Overview

This page goes over enhancements made in relation to LiveAssist.

Sending Additional Information to LiveAssist

We are now sending **user** and **session** information in all queries to LiveAssist. This will enable us to do the following in the future:

• Chats are unique per user

Improved Filtering

The AI Diagnostics column has been improved to have four states:

- All All alerts regardless of
- None Only show alerts without a RCA
- Pending Show alerts that are waiting for their RCA to be complete
- Complete Show alerts that have a completed RCA

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Alert	5 Ent	er Filter	Request Here									Apply filter	Configu	re Alerts
					Active				History					
Re				Refresh Alerts	View Options ~					Q Search				
	SEVERITY	٥	SITE O	DEVICE	DESCRIPTION	C TIME OPENED	ACTIVE FOR	CATEGORY	ТУРЕ		٥	THIRD PARTY	AI DIAG	ost 🗘
	All	~	Site	Device	Description		All 🗸	Ali 🗸	All		~	Third Party Ir	All	~
	• Info		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 44.00 ms network delay for the application akamai	18 Jun 2025, 10:20 PM	less than a min	Application	Application Perf	formance - Network Delay				c
	A Critical		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 56.00 ms network delay for the application espn-browsing	18 Jun 2025, 10:20 PM	less than a min	Application	Application Perf	formance - Network Delay				~
	A Critical		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 411.00 ms network delay for the application ms-services	18 Jun 2025, 10:13 PM	6 minutes	Application	Application Perf	formance - Network Delay				<i>z</i>
	A Critical		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 90.00 ms network delay for the application flashtalking	18 Jun 2025, 10:01 PM	18 minutes	Application	Application Perf	formance - Network Delay				c
	A Critical		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 68.20 ms network delay for the application skype	18 Jun 2025, 09:56 PM	24 minutes	Application	Application Perf	formance - Network Delay				c
	A Critical		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 79.20 ms network delay for the application windows-azure	18 Jun 2025, 09:49 PM	30 minutes	Application	Application Perf	formance - Network Delay				c
	A Critical		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 52.65 ms network delay for the application google-services	18 Jun 2025, 09:45 PM	34 minutes	Application	Application Perf	formance - Network Delay				с —
	A Critical		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 51.79 ms network delay for the application youtube	18 Jun 2025, 09:45 PM	35 minutes	Application	Application Perf	formance - Network Delay				с
	A Critical		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 64.60 ms network delay for the application innovid	18 Jun 2025, 09:20 PM	about 1 hour	Application	Application Perf	formance - Network Delay				2
	Critical		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 143.53 ms network delay for the application cws.conviva	18 Jun 2025, 08:42 PM	about 2 hours	Application	Application Perf	formance - Network Delay				<i>z</i>
	A Critical		Micro	MICRO-CSR-15.sd.livea	MICRO-CSR-15.sd.liveaction.com. had 141.55 ms network delay for the application vision.fn-pz	18 Jun 2025, 08:39 PM	about 2 hours	Application	Application Perf	formance - Network Delay				c
	Warning	0	Heaven	ASR1001.liveaction.com	Drop Rate was 2039.91 Kbps for ASR1001.liveaction.com on interface Tunnel1 in the Output direction	L. 18 Jun 2025, 08:31 PM	about 2 hours	Device, Interface	QoS Class Drop					
_														

Alerting Dynamic Threshold Updates

Additional Alert Support

The following alerts were updated to add support for dynamic thresholds.

- Voice/Video Performance Jitter Max
- Voice/Video Performance Jitter Average
- Voice/Video Performance Packet Loss

Example Screenshot

📃 ≿ LiveNX 🛛 LiveAssurance					New Feature:	II 🔺 6 📕 (D 🔵 1 🔔 15 RPI	ଡ ବ୍ଷ X 🕷	
> Interface Reachability		~	Device, Interface	Voice/Video Performance -	litter Ava				
> IPSLA Test		~	Network	voice/ video Performance - c	Aller Avg				
> IPSLA Video Test		~	Network	LIST OF INSTANCES	ADD NEW INSTANCE	INSTANCE DETAILS			
> IPSLA Voice/Jitter Test		~	Network	🗄 1. New Alert	— • •	I nis aiert may contri	bute to status of an interface, pevice, and/o	r site.	
> Line Card Operational State		~	Device, Interface	Default Instance		Instance Name *			
LiveNX CPU Utilization			System			New Alert			
LiveNX Disk Utilization			System			Alert Source *			
LiveNX Memory Utilization			System			Application: rtp	rtp-video rtp-audio Enter Filter Re	equest Here	
LiveNX Node Connectivity			System			Time Window Setting:	For sites without business hours configure	d this setting will be	
> LiveWire Disk Operational State		~	Network			ignored. Alerts can be triggered at any time of day.			
> Low WAN Interface Utilization		~	Device, Interface						
> Power Supply Operational State		~	Device, Interface			Inresnolas			
> QFP Throughput Level		~	Device, Interface			For at Least *	Automatic Resolution	ion Time * 🚯	
> QoS Class Default Drop		~	Device, Interface			> 0	min Manual	~	
> QoS Class Drop		~	Device, Interface						
> QoS Interface Drop		~	Device, Interface			🔾 Static 🚺 Dyna	mic () Static and Dynamic () Static	or Dynamic	
Routing Adjacency State Change		~	Network				Standard Deviation *		
Routing Polling Error		~	Network			CRITICAL 🔺	>- 10	σ	
> Site Reachability			Network						
Spanning Tree Topology Change		~	Network			WARNING	Standard Deviation *		
System Config Backup			System				>= 5	σ	
Voice Traffic Classification and Marking		~	Application						
Voice, Video Applications Performance		~	Application			🛃 INFO 🔹	Standard Deviation *	a	
> Voice/Video Performance - Jitter Avg	~	~	Application						
> Voice/Video Performance - Jitter Max	~	~	Application						
> Voice/Video Performance - Packet Loss	~	~	Application				-		
> VRRP Operational State		~	Network					Cancel Save	

Dynamic Threshold Visibility

To help users better understand why an alert was triggered when using a dynamic threshold, we've added more visibility into the values involved. With this update, alerts that support dynamic thresholds will now display the configured multiplier as well as the average value which are the values used to calculate the dynamic threshold.

Voice/Video Performance - Jitter Avg								
Status & Time								
Status:	Active	~						
Time opened:	10 Jun 2025, 01:56 PM							
Active for:	about 8 hours							
Source Info								
Site:	Unspecified							
Device:	SD-ISP-METRO-NET.lab.liveaction.com							
Conversation:	UDP 192.168.2.211:63406 to 10.2.101.141:	5004						
Source Site:	Unspecified							
Destination Site:	Unspecified							
Event:	Report							
Description								

Description

SD-ISP-METRO-NET.Iab.liveaction.com running application rtp-audio had 27.30 ms of jitter for traffic with a DSCP value of 46 (EF)

Details

Configured Threshold:	6 ms
Latest Jitter Avg:	27.30 ms
AI Analysis Levels:	Basic Analysis, Root Cause Assist
Average:	1.2
Initial Jitter Avg:	27.48 ms
DSCP:	46 (EF)
Configured σ Multiplier:	5.0
Application:	rtp-audio
Root Cause Assist Summary:	Root cause assist in progress Please check back later for the results.

Al Diagnostics 🚯

Summary: Root cause assist in progress... Please check back later for the results.

Notes

Notes

Batching of Alerts in Emails

Overview

Customers do not want to be bombarded with emails. When many alerts are occurring, having a single summary email is more useful than one email per alert.

Configuration

There are two aspects to configuration for batch email alerts, email and alert.

Email Configuration

Having email configured is a prerequisite for this feature. Email configuration can be done by an **admin** user via the *Settings* > *Email Configuration* page.

The *link settings* are used to determine how links in any email will reach the LiveNX instance. Users may need to configure a publicly reachable address for the URL format.

E LiveNX (LiveAssurance)				▲ 68	6	<mark>)</mark> 16	. 294629	RPI	0	ŵ	옷 admin
Settings											
Q, ema											
	EMAIL CONFIGURATION										
Email Configuration	SMTP Server										
	Host Name *	Port *									
	smtp.gmail.com	587									
	Login Required										
	Username *	Password *									
	jloo.liveaction@gmail.com	Password	۲								
	Security										
	TLS		~								
	Email Settings										
	Sender Address *	Sender Name									
	jloo.liveaction@gmail.com	Eriberto Ernser									
	Link Settings										
	Include URL of server in email	is ()									
	URL Format										
	Server IP V	https://10.2.101.169									
		Delete Test Sa	we								

Alert Configuration

Any **admin** user can configure batch alerting via Settings > Alert Configuration.



-	
	eAssurance
Settings	
Q Search	
Alerts Configuration	
Configuration	~
Dashboards	~
Data Source Management	
Data Store Management	~
Default Login Method	
Email Configuration	
Entity Page Reports	~
External Authentication	~

- Batch alerts Toggle on whether to batch all alert events into a single email. Disabled by default.
- Maximum Send Delay The amount of time to wait until sending the alert batch email. Must be greater than 0, there is upper bound. The default value is 5 minutes.

Once batching is enabled, any alert that should be delivered via email will honor the batching.

Example Email

The email template includes all of the same information found in the alert on the LiveNX Operations Dashboard as well as a link to open the alert in the application.

ର୍ଦ୍ଦ ।		-							
Row Number	Time Opened	Severity	Status	Source Info	Alert Type	Description	Details	Link	Notes
1	Tuesday, June 10, 2025, 4:47:13 PM Hawaii-Aleutian Standard Time (2025-06-11T02:47:13.911Z)	Critical	Resolved	Site : Unspecified Device : PA-CSR1K.228	Device Reachability (PA-CSR1K.228)	PA-CSR1K.228 reachability alert updated by user	Previous Device Status : Down Device Status : Down	<u>Alert Page</u> Link	1
2	Tuesday, June 10, 2025, 4:47:04 PM Hawaii-Aleutian Standard Time (2025-06-11T02:47:04.712Z)	Critical	Resolved	Site : LondonEdge Device : LDN-SwitchV1	Device Reachability (LDN-SwitchV1)	LDN-SwitchV1 reachability alert updated by user	Previous Device Status : Down Device Status : Down	<u>Alert Page</u> <u>Link</u>	
3	Tuesday, June 10, 2025, 4:47:04 PM Hawaii-Aleutian Standard Time (2025-06-11T02:47:04.696Z)	Critical	Resolved	Site : Barcelona Device : Barcelona	Device Reachability (Barcelona)	Barcelona reachability alert updated by user	Previous Device Status : Down Device Status : Down	<u>Alert Page</u> <u>Link</u>	1
4	Tuesday, June 10, 2025, 4:47:04 PM Hawaii-Aleutian Standard Time (2025-06-11T02:47:04.696Z)	Critical	Resolved	Site : Pacific Device : PA-CSR-04.liveaction.com	Device Reachability (PA-CSR- 04.liveaction.com)	PA-CSR-04.liveaction.com reachability alert updated by user	Previous Device Status : Down Device Status : Down	<u>Alert Page</u> Link	
5	Tuesday, June 10, 2025, 4:47:03 PM Hawaii-Aleutian Standard Time (2025-06-11T02:47:03.886Z)	Critical	Resolved	Site : PaloAlto Device : PaloAlto	Device Reachability (PaloAlto)	PaloAlto reachability alert updated by user	Previous Device Status : Down Device Status : Down	<u>Alert Page</u> Link	1
6	Tuesday, June 10, 2025, 4:47:03 PM Hawaii-Aleutian Standard Time (2025-06-11T02:47:03.884Z)	Critical	Resolved	Site : Unspecified Device : AP2	Device Reachability (AP2)	AP2 reachability alert updated by user	Previous Device Status : Down Device Status : Down	<u>Alert Page</u> Link	1
7	Tuesday, June 10, 2025, 4:47:03 PM Hawaii-Aleutian Standard Time (2025-06-11T02:47:03.884Z)	Critical	Resolved	Site : MoscowVedge1 Device : MoscowVedge2	Device Reachability (MoscowVedge2)	MoscowVedge2 reachability alert updated by user	Previous Device Status : Down Device Status : Down	<u>Alert Page</u> <u>Link</u>	
8	Tuesday, June 10, 2025, 4:47:03 PM Hawaii-Aleutian Standard Time (2025-06-11T02:47:03.884Z)	Critical	Resolved	Site : Toulouse Device : Toulouse	Device Reachability (Toulouse)	Toulouse reachability alert updated by user	Previous Device Status : Down Device Status : Down	<u>Alert Page</u> <u>Link</u>	1
9	Tuesday, June 10, 2025, 4:47:03 PM Hawaii-Aleutian Standard Time (2025-06-11T02:47:03.8842)	Critical	Resolved	Site : HUB Device : HUB1_232.liveaction.com	Device Reachability (HUB1_232.liveaction.com)	HUB1_232.liveaction.com reachability alert updated by user	Previous Device Status : Down Device Status : Down	<u>Alert Page</u> Link	5
10	Tuesday, June 10, 2025, 4:47:03 PM Hawaii-Aleutian Standard	Critical	Resolved	Site : Unspecified	Device Reachability (AP1)	AP1 reachability alert updated by user	Previous Device Status : Down	Alert Page	

Alerts will be numbered in chronological order, with the most recent on top.

FAQ

- Is batching enabled by default?
 - No. On upgrade batching will not be enabled until manually activated by an admin.
- Batching is done per email address?
 - Yes. Each email address will only receive alerts that are targeted to them as per alert configuration.
- Are emails to all recipients sent at same time?
 - It depends. When the delay time has been reached, all emails will be sent to all recipients. Therefore it is recommended to use an email alias when sending to many recipients to reduce the number of outbound emails from LiveNX. Emails can also be sent individually if a single recipient has more than the maximum batch size (default 500).
- How does modifying the alert delay affect the next outgoing batch email?
 - If delay time is changed, a batch email will be sent immediately. Once that email is sent, the next batch email will be sent after the configured delay time has passed.
- Can I get both batched and single alert emails?
 - No. If batching is enabled all alerts will be sent batched, there is no way to select which alerts to batch.
- When I change the delay, when will the next email be sent?
 - Changing settings will force the queue to be emptied. All alerts that have not been sent will immediately be sent. Following that, the next batch email will send at the newly appointed time.
- Is there a limit to how many alerts can be in a single email?
 - Yes. The default batch size is 500 alerts per email. This can be increased by modifying the application property alert.email.batch-size on the server and restarting the livenx-server process.
- What happens when the batch limit is reached?
 - When the batch size limit is reached (default is 500), the email will be sent immediately, regardless of scheduled batch time.

Syslog TLS Support

Overview

TLS support for communication with Syslog servers has been added in LiveNX 25.2.0.

Configuration

Syslog settings can be configured via *Syslog* > *Settings*. *TLS* has been added as a **protocol** option.

Note Only publicly trusted certificates that are recognized by the current version of Java will work with TLS. Self-signed certificates are not supported.

Facility		Address of Syslog Server *
Local 0	~	1.2.3.2
Protocol		Port *
TLS	~	514
Syslog Message For	mat	
Syslog Message For Application Name *	mat	Hostname
Syslog Message For Application Name * %LIVEACTION	mat	Hostname
Syslog Message For Application Name * %LIVEACTION Timestamp	rmat	Hostname Hostname V

Automatic Alert Resolution

Overview

Alert enhancements have been added to ensure that irrelevant alerts are automatically cleaned up.

Disabling an Alert Instance

Alerts are automatically resolved when an alert instance is disabled. Disabling an alert identifier means that the alert is no longer relevant. We should resolve alerts associated with a disabled identifier to clean up the systems state and remove alerts the user thinks are not important.

FAQ

- Will re-enabling an alert identifier reopen alerts that were closed by the disable?
 - No. No alerts will be re-opened or recreated when enabling an alert identifier. Users must wait for a new alert to be created.
- Is there a way to disable all alerts for a given alert type?
 - No. The functionality is only per identifier today.
- I disabled the instance but the alert is re-opened. Why?
 - It is likely that a different identifier is now the source of the alert. Please ensure no other identifiers match the alert criteria.

Moving Devices between Nodes

When a device is moved from one node to another it does not make sense to keep the alert on the original node. This is because the alerts are calculated per-node. If there is no device, no data will come in and the alert will never be automatically resolved. Similarly, an alert with the same device name can appear on the new node since each node handles it's own alert processing.

Note If a node is down when a device is moved, no alerts will be resolved on that node. When the node becomes online and reconnects to the server, alerts related to the migrated device will still be there.

Shared Dashboard Management

Overview

A shared dashboard allows inexperienced users to rely on an advanced LiveAction user to create an ideal set of reports that can be viewed on demand. If the advanced LiveAction user leaves, those dashboards can never be updated. This has been fixed in LiveNX 25.2.0 by allowing users the ability to transfer dashboard ownership.

Workflow

The work flow is similar to the shared dashboard management and therefore hopefully familiar. Any **admin** user can re-assign dashboard ownership via *Settings* > *Dashboards* > *Shared Dashboards Management*.

1. Navigate to the shared dashboard management page.

≡ LiveAction	NX Live	Assurance					▲ 13	53 = 92	• 1196	🌲 1089032	-	{} ~	0 -	۰.	💄 admin
Settings															
Q Search															
Configuration	~	SH	ARED DASHBOARDS MANAGEMENT												
Dashboards	^	R	Reassign Ownership Delete Q Search												
Auto Cycle Configuration			NAME	0	OWNER O	CRE	ATED				TED				0
Shared Dashboards Management				Ŷ											Ť
Widgets Management			Name		Owner		Created			Last Up	dated				
Data Source Management			WAN		admin	06	Dec 2024, 04:24PM			23 Apr 20	25, 08:57AM	1			
Data Store Management	~		Status (2)		config	07	Feb 2025, 09:42AM			08 Feb 20	125, 05:46PN	4			
Default Login Method			Alerts		jloo	06	Dec 2024, 04:24PM			22 Apr 20	25, 02:56PM	(
Email Configuration															
Entity Page Reports	~														
External Authentication	~														
Integrations	~														
Licensing	^														
License Configuration															
License Expiration Notification															
Mounted Data	~														
Network Intelligence Configuration	~														
Nodes	- 1														
Notifications															
Properties	~														
Proxy															
Reports	^														
Flow Reports Results Limit		Ro	ws: 3 / 3												
Logo															

2. Select dashboard(s) that should be reassigned and click "Re-assign Ownership" which brings up a dialog.

SHAF	RED DASHBOARDS MANAGEMENT	
Re-a	Delete	
	NAME	\$ OWNER
	Name	Owner
	WAN	admin
	Status (2)	config
	Alerts	jloo

3. Select the user who should become the new owner of all selected dashboards.

≡ LiveAction	NX Liv	aAssurance							🔺 1363 🔳 92 🔹 11	96 🌲 10	089032 📟	{-} • 0 •	۰ ۰	💄 admin 👻		
Settings																
Q Search		SH	ARED DASHBOARD	S MANAGEMEN	г											
Configuration	~															
Dashboards	^	R	Reasing Ownership Delete Q, Search													
Auto Cycle Configuration			NAME			OWNER		CREATED			LAST UPDATED					
Shared Dashboards Management																
Widgets Management		•	Name			Owner		Created			Last Updated					
Data Source Management			WAN			admin		06 Dec 2024	4, 04:24PM		23 Apr 2025, 08:57AM					
Data Store Management	~		Status (2)						09:42AM		08 Feb 2025, 05:46PM					
Default Login Method			Alerts		_	RE-ASSIGN OWNERSHIP ×			× d4:24PM		22.4pt 2020, 02.001 W					
Email Configuration						Note: The dashboard owner will have a cop	y after the ownership is	re-								
Entity Page Reports	~					assigned.										
External Authentication	~					Select User to Assign Ownership *										
Integrations	~					Select User to Assign Ownership		~								
Licensing	~						Cancel	Save								
License Configuration																
License Expiration Notification																
Mounted Data	~															
Network Intelligence Configuration	~															
Nodes																
Notifications																
Properties	~															
Proxy																
Reports	~															
Flow Reports Results Limit		Ro	ws: 3 / 3 Selected: 1													

Migration Behavior

- Dashboards will be transferred to the new user with the same name.
- If a dashboard is added to new owner, it will not be activated

Here are additional details to know, broken down per user types:

- Original dashboard owner
 - The dashboard becomes an *add* dashboard (copy by reference). Any changes the new owner makes to the dashboard will be reflected on their copy of the dashboard.
- New dashboard owner
 - If user was a consumer of original dashboard via "add" The dashboard is now editable. Any changes made will be reflected to all consumers of the dashboard.
 - If user was not a consumer of original dashboard A new dashboard will be added to the "dashboard list". The dashboard is not active by default.

• All other users

- If user was a consumer of original dashboard via "add" No change. Changes made by the new owner will continue to be reflected in the dashboard.
- If was not a consumer of original dashboard Not applicable. Dashboard changes do not affect this user.

Defining what copy and add dashboards are:

- Add A dashboard that was added by pressing "add". This is a reference to the original dashboard. Any changes made to the original will be reflected on any dashboard that was added via "add".
- **Copy** A dashboard that was added by pressing "copy". This is considered a snapshot of the dashboard at the time the copy was made. There is no connection to the original dashboard, the user who pressed "copy" is the owner of the dashboard.

Before

Before "alerts" dashboard is reassigned to "admin" user

				🔺 1364 🔲 88 🔹 1195 🐥 9	5038 📖			
Dashboard				May 12, 2025 17:35:00 - May 1:	2, 2025 17:50:00	Dashboards List	Add Widget	1
🗄 Status … 🗄 WAN … 🗄 System		erformance ··· # DDI		Fortinet … 🗄	\$∘ Alerts	=	New Tab	
Enter Filter Request Here							🚸 Арр	oly filter
Current Active Alert Count Alert Count by Site	×		×	Current Active Alert Count Alert Count by	Device			×
Umperfera-official 975 Umperfera-official 975 Umperfera-official 304 Micro-official 304 Umperfera-version 4256 Micro-official 304 PravAlha-official 304 Barelona-official 304 Ba				LS, TESTRA-Critical LS, TESTRA-Critical LS, TESTRA-Linko MICRO CGSH 15 ad Investion comcritical MICRO CGSH 15 ad Investion cominfo LS, TESTRA-Warning Toutouse-Info Bacelona_Info Moscowiedge1-Info Honolulu-Info	932 800 304 256 35 30 30 20 20 20 20 20 alerts			
Current Active Alert Count / Net Count by WAN Interface 15, 15158	×							

After

After "Alerts" dashboard is reassigned to "admin" user.

EliveAction Nx LiveAssurance		▲ 1364 ■ 88 ● 1195 ▲ 95038 · · · · · · · · · · · · · · · · · · ·
Dashboard		May 12, 2025 17:30:00 - May 12, 2025 17:45:00 Dashboards List Add Widget 🖉
II Status ···· II WAN ···· II System ···· II	Users … II: Cisco SD-WAN Performance … II: DDI … II:	Fortinet … 🗄 🏲 Alerts (admin) … 🗄 New Tab …
Enter Filter Request Here		か Apply filter
Current Active Alert Count Alert Count by Site	Current Active Alert Count Alert Count by Category	Current Active Alert Count Alert Count by Device
Unspecified—Critical 975 Unspecified—Art 2014 Mices—Critical 304 Mices—Units 304 Mices—Units 304 Unspecified—Winning 35 Polacites—Into 30 Touloas—Unit 30 Barcelona—Unit 30 Ba	Application—office 1120 Application—office 1120 Device, Instructure—office 140 Device, Instructure—Office 44 Network.—Affice 44 Device, Instructure—Nat. Network.—Natrul 45 Device, Instructure—Nat. Device, Instructure—Nat. Device, Instructure—Nat. Device, Instructure—Nat. Device, Instructure—Nat. Device, Instructure—Instructure System—Office 13 Device, Instructure—Instructure Application—Office 12 Device, Instructure—Instructure Application—Office 12 Device, Instructure—Instructure Application—Office 12 Device, Instructure—Instructure Application—Office 12 Device, Instructure Application—Office 12 Device, Instructure Application	L3_TSTRFChild 922 L3_TSTRFMb 60 MCROCQF15458_01eec.254 MCROCQF1536_11eec.255 Todose-Milo 30 BaresionMb 20 BaresionMb 20 BaresionMb 20 HotooLuMb 20 BaresionMb 20 Baresion_
LS_TESTER-Unknown. 914 LS_TESTER-Unknown. 70 MICRO-COR 15 at lwate. 10 MICRO-COR 15 at lwate. 10 M		

Notes

- Changes are not reflected on "dashboard" page until user refreshes page (or navigates away and comes back)
- Only shared dashboards can be reassigned owners. Standard dashboards cannot be reassigned

Custom Device Refresh Time

Overview

Customers want the ability to determine when their devices will be polled for a device refresh. This ensures that the sync occurs at the proper time and is not using extra resources on the device at inopportune times.

Feature

Users can now specify what time of day the device refresh will occur. Whereas before users could only specify the **frequency** of the refresh, now the **time of day** can always be specified.

DEVICE AUTO-RE	FRESH	Enabled						
LiveNX will auto-refresh device and interface details (bandwidth, IP address, IOS version, etc.).								
Refresh Time Interval *		Refresh	Time					
3	days	00	≎ :	00	\$			
Time Zone					DST 🚯			
(GMT-10:00) Pacific/H	onolulu				~			
		Revert C	Changes		Apply			

The ability to customize the refresh time has been added to the existing menu on the Settings > Device Auto-Refresh menu. Any admin user can edit this.

Similar to reporting, users can specify the time of day and the time zone that they wish the refresh to occur. The **DST** checkbox is only there to determine if DST should be honored when DST is in effect.

Previous Month Time Range

Overview

A new time range has been added for "previous month". This will always run from midnight of 1st day to midnight of the last day of the previous month (for example, If the current date is June 14 then the previous month is May). The time range will honor the time zone parameter chosen.

Users should make sure they have at least two months of data retention if they want to use this feature consistently. It is also still recommended to use monthly scheduled reports since the report execution may take a while.



Note When daylight savings time toggles, the month will have an extra hour at the beginning/end (depending on if adding or removing an hour).

OVA Sizing

Overview

The OVA sizes have been updated for LiveNX 25.2.0. The small size and POC/custom size are no longer being produced, and the memory, CPU, and disk space have all been increased for medium and large.

The table below summarizes the new system requirements for LiveNX.

Items	Minimum Requirements for New Medium OVA	Minimum Requirements for New Large OVA
FPS (K)	100K	150K
CPU	32 vCPU Xeon	64 vCPU Xeon
RAM	128 GB	256 GB
Data Disk	8 TB	16 TB

InfluxDB Removal

Overview

Over the past several releases ClickHouse has become the replacement for data that had previously been stored in InfluxDB. InfluxDB has remained in place to allow historical data to be migrated into ClickHouse. With LiveNX 25.2.x, InfluxDB is no longer installed with LiveNX.

- **Note** If upgrading from LiveNX 24.2.x or a previous release to LiveNX 25.2.0, historical data will not be migrated. Please first upgrade to LiveNX 24.3.x or LiveNX 25.1.x to have the data migrated.
- **Note** The InfluxDB data is not automatically purged after upgrading. The data will appear in the *Other Store* category on the Data Store management page. To free up disk space, manually, go to LiveAdmin and run the delete-influxdb-data service.

Notes

- **1.** The data stored in InfluxDB is no longer migrated into ClickHouse. Please first upgrade to either 24.3.x or 25.1.x to perform data migration.
- 2. The data stored in InfluxDB will appear as Other Data Store in the Data Store management page.
- 3. The data stored in InfluxDB will not automatically be purged in this release. A later release may automatically purge it but for now the data must be manually deleted. As a convenience, there is a LiveAdmin service called delete-influxdb-data that can be run as a one-time service to purge the data. Subsequent attempts to run this service will have no effect.
- 4. Several application properties will no longer have an effect. The deprecated application properties are listed below.

Deprecated Application Properties

- Deprecated Application Properties
- clickhouse.migration.vmanage.enabled
- clickhouse.migration.vmanage.window-millis
- clickhouse.migration.vmanage.batch-size
- clickhouse.migration.snmp.enabled
- clickhouse.migration.snmp.window-millis
- clickhouse.migration.snmp.batch-size
- clickhouse.reporting.vmanage.enabled
- influxdb.host
- influxdb.port
- influxdb.timeout.read.seconds
- influxdb.timeout.write.seconds
- influxdb.timeout.connect.seconds
- influxdb.log-queries.enabled
- influx.reportstore.application.disabled
- influx.reportstore.dscp.disabled
- influx.reportstore.applicationdscp.disabled
- influx.reportstore.bandwidthutilizations.disabled

- influx.reportstore.topconversations.enabled
- influx.reportstore.application.migrate.days
- influx.reportstore.dscp.migrate.days
- influx.reportstore.applicationdscp.migrate.days
- influx.reportstore.bandwidthutilizations.migrate.days
- influx.reportstore.topconversations.migrate.days