



RELEASE LiveNX 7.3.0
29 JUNE 2018

Checksum (MD5)	Download Link	File Type
LiveNX Client Installers		
867bfe608c6b90532df2d542aa05b0a0	https://download.liveaction.com/LiveNX/7_3_0/LiveNXClient-7.3.0-macos.dmg	LiveNX Client for Mac OS
5213c68f01f01e275c80ece1312f1ea9	https://download.liveaction.com/LiveNX/7_3_0/LiveNXClient-7.3.0-windows.exe	LiveNX Client for Windows 32-Bit OS
b083496509b4ab16b7bf9fa4b39e3bdd	https://download.liveaction.com/LiveNX/7_3_0/LiveNXClient-7.3.0-windows-x64.exe	LiveNX Client for Windows 64-bit OS
LiveNX Node OVA/OVF		
64bfb9adeab5bd44e6dab9a943744357	https://download.liveaction.com/LiveNX/7_3_0/livevx-node-7.3.0-custom.7z	LiveNX Node OVF for Microsoft Hyper-V - Custom
442fba1df86b910ba00076a8fcd4bdec	https://download.liveaction.com/LiveNX/7_3_0/livevx-node-7.3.0-custom.ova	LiveNX Node OVA for VMWare ESXi - Custom
58f71a86f8eb1fc7002bcff91b5dd3ba	https://download.liveaction.com/LiveNX/7_3_0/livevx-node-7.3.0-small.ova	LiveNX Node OVA for VMWare ESXi - Small
58be2748e56a013fee5bea8469275039	https://download.liveaction.com/LiveNX/7_3_0/livevx-node-7.3.0-medium.ova	LiveNX Node OVA for VMWare ESXi - Medium

d1da9dded9406978be7b59c8fc47de30	https://download.liveaction.com/LiveNX/7_3_0/lixenx-node-7.3.0-large.ova	LiveNX Node OVA for VMWare ESXi - Large
LiveNX Server OVA/OVF		
64bfb9adeab5bd44e6dab9a943744357	https://download.liveaction.com/LiveNX/7_3_0/lixenx-node-7.3.0-custom.7z	LiveNX Server OVA for VMWare ESXi - Custom
442fba1df86b910ba00076a8fcd4bdec	https://download.liveaction.com/LiveNX/7_3_0/lixenx-node-7.3.0-custom.ova	LiveNX Server OVF for Microsoft Hyper-V - Custom
58f71a86f8eb1fc7002bcff91b5dd3ba	https://download.liveaction.com/LiveNX/7_3_0/lixenx-node-7.3.0-small.ova	LiveNX Server OVA for VMWare ESXi - Small
58be2748e56a013fee5bea8469275039	https://download.liveaction.com/LiveNX/7_3_0/lixenx-node-7.3.0-medium.ova	LiveNX Server OVA for VMWare ESXi - Medium
d1da9dded9406978be7b59c8fc47de30	https://download.liveaction.com/LiveNX/7_3_0/lixenx-node-7.3.0-large.ova	LiveNX Server OVA for VMWare ESXi - Large
LiveNX Server OVA/OVF		
e921f1e98cae2c1872e61fedfc591e1e	https://download.liveaction.com/LiveNX/7_3_0/lixenx-server-7.3.0-custom.7z	LiveNX Server OVF for Microsoft Hyper-V - Custom
ca142f552ebe8e5ddfc13c0c9ce0a105	https://download.liveaction.com/LiveNX/7_3_0/lixenx-server-7.3.0-custom.ova	LiveNX Server OVA for VMWare ESXi - Custom

54e4e938b9c48d009c41dd70ac5e5647	https://download.liveaction.com/LiveNX/7_3_0/live-nx-server-7.3.0-small.ova	LiveNX Server OVA for VMWare ESXi - Small
97399f9463670fcb2d345500397db797	https://download.liveaction.com/LiveNX/7_3_0/live-nx-server-7.3.0-medium.ova	LiveNX Analytics Node OVA for VMWare ESXi - Medium
c723a2fd78e3e156c7d3abe78fdb0ab	https://download.liveaction.com/LiveNX/7_3_0/live-nx-server-7.3.0-large.ova	LiveNX Analytics Node OVA for VMWare ESXi - Large
LiveNX Upgrade Packages		
1923fe8a87b37797958f26fff5aa54fa	support@liveaction.com	LiveNX Server Upgrade Package
b99320b77a608cd1464f9a8618bf306d	support@liveaction.com	LiveNX Node Upgrade Package
d3e0024063eeaf507f5b1199fa27cd44	support@liveaction.com	LiveNX Analytics Node Upgrade Package

LiveNX rpm packages for Cloud		
d482e0ca4dcf2d33d9f9a3a970724092	https://download.liveaction.com/LiveNX/7_3_0/live-nx-7.3.0-568.x86_64.rpm	LiveNX Server package for Cloud deployment
1a88b5c843dd2b9d945803698ba929a1	https://download.liveaction.com/LiveNX/7_3_0/live-nx-node-7.3.0-568.x86_64.rpm	LiveNX Node package for Cloud deployment

- Release Information
- Build Information
- New Features and Enhancements
- Custom Dashboard
- WebUI Enhancements
- Status Consistency
- Alerting
- IPSLA
- WAN Availability Story
- SDWAN
- SD Access
- DNA-C
- LiveAgent
- Reporting Enhancements
- OVA Enhancements
- System Diagnostics
- System Management
- Network Users
- Site-to-Site
- Resolved Customer Issues
- Known Issues
- Download Links

Release Information

- Release Version: LiveNX v7.3.0
- Release Date: 29 June 2018
- Release Designation: ED (Early Deployment)

Build Information

APPLICATION VERSION	
Server Version :	7.3.0-20180628-453f9e3
Web Version :	7.3.0-20180628-04cc698+b568
OVA Version :	1.20.0

[New Features and Enhancements](#)

Custom Dashboard

- Custom Dashboard Widgets
- Added an 'edit' custom widget modal. Users can edit custom widgets if they have ownership of it. Changes will affect the shared version of this widget for all other users as well.

- Added support for Timeseries execution type graphs for custom widgets.
- Added support for Aggregation execution type graphs for QOS reports for custom widgets.
- Added device name and/or interface name to custom widget subtitle.
- Re-added "bin duration" parameter when creating/editing custom widgets.
- Custom Dashboards
- When shared dashboard pages are unshared or deleted by its owner, the shared page will no longer be automatically deleted for all other users. Instead, the widgets are removed, and a user message about the deleted dashboard is displayed.
- Shared dashboards will show users the the creator's username and a "last updated" date.
- Added the ability to copy a shared dashboard. This transfers the ownership to the user who copied it, and allows them to manipulate it.
- Added positive/negative graph visualizations for "inbound/outbound separated" flow direction.
- Added a global dashboard filter, displayed on all dashboard pages. Filters will be applied on a per-widget basis. When a single widget does not support a flex search, a user message is displayed. This filter is persisted individually for each dashboard page.
- Added an Alert default dashboard page, and a "Current Active Alert Count" widget group, which is available on the sidebar. This widget group contains the following reports:
 - Alert Count by Site
 - Alert Count by Category
 - Alert Count by Device
 - Alert County by WAN interface
- Added Device Availability and Interface Availability default widgets to the Status dashboard page.
- The widget spinner only displays the first time the widget is loaded. When the widgets are refreshed every 5 minutes, there is a new, less intrusive animation bar on the bottom.
- Fixed cancelling queued reports when navigating away from the dashboard page.
- Widgets display device names on the legend instead of device serials.

WebUI Enhancements

- Reporting
- "Top Reports" group added to report selector. These are the recommended reports for users based on speed and information.
- Reports spinner replaced with placeholder while waiting for report to render.
- Reports load sequentially to reduce time to render of first report when viewing large report groups.
- Reports page displays what store (long term/raw) is being used as well as approximate execution time (fast/normal/slow)
- SDWAN reports have their "sort by" added to their name to increase readability
- Entity Page
- New Availability tabs on Device and Interface entity pages.
- Entity pages status will be updated through auto-refresh.
- Dashboard
- SD-WAN Tab on dashboard has been optimized to retrieve data faster.
- Security Flow Analysis
- Validation of filter inputs.
- Sankey
- Improved styling
- General
- Progress spinner updated to be less intrusive to data on various views.
- Navigation bar's alert status indicators will drill down to alerts page filtered by appropriate severity

Status Consistency

- Improved consistency of status within entity pages for Site, Device, and Interface.
- Provided better context to overall status severity indication by matching severity coloring with the contributing status fields.
- Improved performance of status within entity page.

- Added support for Cisco ACI devices when polling for device IP addresses

Alerting

- IPSLA Alerts added to the Operations Dashboard.
- Routing Adjacency (ISIS/EGIRP/OSPF) Alerts.
- Routing Polling Error Alerts.
- Spanning Tree Topology Change Alerts.
- Alert widgets available on the dashboard.
- Reports on Operations Dashboard alerts.

IPSLA

- IPSLA Reports are now available in the Operations Dashboard and through the REST API.
- IPSLA Alerts are now available through the Operations Dashboard.

WAN Availability Story

- Story page on the operations dashboard that provides the uptime percentage of the wan links. Searchable by semantic tags like site, tag, group, etc.
- Drilldown to see a table of uptime percentage of that link per day over that time range.

SDWAN

- SDWAN Topology will show application flows by app names/VPN IDs/DSCP classes and Service Providers.
- Added Application, Source/Destination Site, DSCP, VPN, Service Provider filters.
- Ability to show application path and details by clicking on flow segment.
- Ability to display App Route related policies.
- Drilldown to Sankey chart, filtered by app flow details.
- VPN column in Sankey chart.

SD Access

- SD Access / Campus fabric can now be visualized as a Sankey through new story "SD Access Traffic Assessment".
- SD-Access is opt-in only and must be enabled through server property "sdaccess.enabled".
- IP's are resolved to User names via ISE or IP Mappings (configured Engineering Console).
- Scalable Group Tags and Virtual Network Identifiers are resolved via DNA-C.
- User metrics from DNA-C available by drilling into specific user on Sankey.

DNA-C

- Support SNMP v3 for devices added via DNA-C integration.
- Ability to re-validate connection to configured DNA-C.

LiveAgent

- Updated the supported flow fields generated by the agents since that has changed over time.
- Renamed LiveAgent reports appropriately.
- Updated the reports to use the flow fields currently in use.

Reporting Enhancements

- Improved performance of Display Filters in reporting.
- Added more detail to error messages when a report failed or needs additional configuration to run.
- Path Analysis now has the capability to show multiple DSCP and Application markings if it varied within a device for the provided five tuple.
- Various performance improvements in flow collector packet processing.
- Various performance improvements in flow report aggregation processing.
- Reduced the number of records sent from nodes to server for distributed top aggregation processing.
- Add DSCP Field to Jitter/Loss Application and Jitter/Loss Report.
- Top Interface Errors report.
- Renamed (Address Pair report → Top Conversation report, Top Conversation report → Bidirectional Source/Destination Pair Report).
- Deleted existing Bidirectional Source/Destination Pair Report.
- Add configurable long term processing for various reports.
- Report configuration will show if long term processing is used.
- Report configuration will show estimated execution speed.
- Minor Re-org "SNMP" Reports (Previously QoS Reports).
- Move "Interface Bandwidth" to "Flow → Network".
- Move "Top WAN Applications" to "Flow → WAN".
- Move certain heavy reports to a new category called "Flow → Analysis".
- Rename SNMP → Class Policy to SNMP → QoS.
- Support for All Wan Devices as default option for long term reports.
- Added Top 10 Reports list.
- Updated design of Report pages, to improve information density.
- Ability to hide columns in report tables.
- Added positive/negative graph visualizations for "inbound/outbound separated" flow direction.
- While report group is loading placeholder is shown in place of queued report.
- Added interface capacity information to report metadata (header info)
- Adds time estimation as well as if a report will run on the RAW_FLOW_STORE or the LONGTERM_FLOW_STORE.
- **New PfR Reports**
- Alerts by Site and App Group (DSCP).
- Alerts by Site and Service Provider.
- Alerts by App Group(DSCP) and Service Provider.
- Performance by Site and App Group(DSCP).
- Performance by Site and Service Provider.
- Performance by Site Pair and App Group (DSCP) report.
- Performance by Site Pair and Service Provider report.
- Performance by Site Pair report.

- Alerts by Site Pair and Service Provider.
- Alerts by Site Pair and App Group(DSCP) report.

OVA Enhancements

- Defaulted the Node and Analytics Node Web Management Console to standardized HTTPs port (443).

System Diagnostics

- **Get Logs**
- Add system logs, debug bundle, Jidoteki logs, Mongo db & Influx db logs in consolidated log zip.

System Management

- **Troubleshooting**
- Provide users to run tcpdump from WebUI.
- **API Token Management**
- Provide users to manage API token i.e., Generate, Remove Token.
- Option to disable auto-discovery

Network Users

- Addition of Endpoint Device Profile tab in Network Users Details Page.

Site-to-Site

- Allow customer to check the historic data in site to site analysis page.
- A new look of Sankey chart to improve information density.

Resolved Customer Issues

- [LD-18136](#) Server fails to start (NoSuchObjectException while loading server.conf).
- [LD-16710](#) Node fails with OutOfMemoryError caused by large report result from flow dashboard in engineering console.
- [LD-18622](#) Mismatch between DSCP marking Path Analysis and other views.
- [LD-19049](#) All private agents are not displayed.
- [LD-19114](#) LDAP Server deleted when editing settings.
- [LD-18776](#) Nodes Upgrade failed from Node Management console (7.2 to 7.2.1).
- [LD-17242](#) Custom report disappears after editing.
- [LD-18240](#) LDAP users cannot be added either in java client or in WebUI.
- [LD-16973](#) STP Timeout due to community string with "@" character.
- [LD-17837](#) Report doesn't show up on the WebUI even after the execution has completed.
- [LD-17462](#) Node details missing under device tree.
- [LD-18519](#) Auto Refresh of the page doesn't work in WebUI.
- [LD-18437](#) Cannot create Custom QoS /Cisco SD-WAN widgets in WebUI.
- [LD-18441](#) WebUI Site Import Importance Broken.

- [LD-18439](#) Telemetry NPE.
- [LD-18355](#) SD-WAN topology slowness.
- [LD-18241](#) APIC-EM / DNA-C Discovery Failure NPE.
- [LD-18209](#) Widgets showing the serial number instead of device/host name.
- [LD-18736](#) Custom Dashboards - Device serial is displayed on outbound bandwidth utilization widget instead of device name.
- [LD-18454](#) Device inventory page doesn't load.
- [LD-19172](#) Jidoteki API error unhandled and prevents web server from starting.

Known Issues

- The process for adding LiveAgents within LiveNX is still very manual.
- IPSLA Single Test Time Series report page has an additional empty chart area.
- WAN Availability Story filter box will be disabled for about a minute on large setups due to loading all device/interface names on load.