

LiveNCA Network Configuration Automation

LiveNCA delivers advanced network configuration and change management capabilities for even the largest, most complex enterprise networks.



Network Configuration Automation

LiveNCA network configuration automation software integrates automated device discovery for a comprehensive multi vendor asset inventory repository. This single configuration database establishes and maintains the basis for the configuration management lifecycle across an enterprise environment.

Configuration Management

Configuration management applied over the life cycle of network elements establishes a centralized system of record for assets and inventory visibility and control of configuration, management, reporting, and performance.

Change Management

Change management automation reduces the risk of manual mistakes while supporting a collaborative approach by allowing users to review the plan for change before it is executed. LiveNCA enables automated change management that spans people, process, and technology.

Inventory Management

LiveNCA reports detailed hardware information, including serial numbers, that supports audits of user accounts to find old, unused, or unauthorized accounts to remove.

LiveNCA System Requirements

OPERATING ENVIRONMENT	VMware ESXi 6.5+
Manageable Devices	TCP/IP only Switch Router Firewall VPN Concentrator Load Balancer LAN Accelerator Wireless LAN Access Point SNMP-based Network Devices
Protocol	SNMP v1/v2/v3 SSH v1/v2 TFTP FTP HTTP/S IPv6 SCP

LiveNCA Capabilities

Configuration Management

- See existing configurations and compare them against new configurations
- Edit and create configurations to be pushed from backed-up configurations

Configuration Backup and Restore

- Create backups of the configuration data for each device in the inventory
- Compare configurations between devices and detect changes in configuration

Device Discovery

- Add devices to the inventory either manually or automatically
- Schedule device discovery to coincide with operations

Change Advisor

- See the commands that need to be run to restore the selected configuration
- Real-time change detection

SmartChange

- Apply unique changes to multiple devices at the same time

Compliance

- Retain the history of configuration changes and access logs
- Quickly and easily look back to see which user made a change

Open APIs

- JSON-RPC 2.0 API over HTTPS for language neutral integration from external systems
- APIs for: Inventory, Networks, Configuration, Credentials, Scheduler, Plugins, Compliance, Telemetry, Bridges

LiveNCA Key Features

LiveNCA is a complete network change and configuration management solution.

Change Advisor

When something goes wrong, it's good to know you can revert to a known working state. Change Advisor compares the current running or a draft configuration with the prior configuration and generates a list of commands necessary to rollback that change.

Draft Configurations

When preparing for an upgrade or change, Draft Configuration allows the creation or editing of a configuration, either running or startup. Drafts can then be compared to existing configurations to verify that only the parts you expect to change are actually affected.

SmartChange

SmartChange allows network elements to be upgraded all at once through a single command, which can be customized and templated. The templates can then be scheduled to update configuration changes for automating maintenance or upgrade scenarios.

Terminal Policy

Allows SSH into LiveNCA, followed by "jumping" into inventory devices with automatic login and full session recording. Everything is recorded, indexed, and searchable.

User Access Control

LiveNCA presents user-defined roles based on a granular permission system to separate organizational operations by role.

Auto Login

LiveNCA allows SSH access to discovered devices in the inventory database. The login is recorded, indexed, and searchable for security and forensics. This allows for centralized support of local infrastructures.

Start-up Wizard

The LiveNCA delivers online access with three easy steps:

- Add devices
- Set credentials
- Validate backup

Disaster Recovery

LiveNCA manages the current and previous configurations. Should a failure occur, and service restoration is requested, LiveNCA replaces the device configurations and quickly restores them back into production.

Systems Integration

LiveNCA supports a wide range of APIs to facilitate integration with network management, service management, and asset management systems.

Compliance

Real-time compliance detects and reports when a rule or violation in the device configuration is found. Policies can be applied to all or partitioned devices.

Multi Tenancy

Manage multiple networks from a single pane of glass. LiveNCA multi tenancy supports overlapping IP spaces, allowing managed service providers to centrally manage separated geographic or organizational environments.

Job Management

Create, manage, edit, and run scheduled job tasks automatically. Using user-defined triggers, a schedule is specified for periodic cycles and repeated tasks, including historic jobs.

LiveNCA Key Features

Device Discovery	SNMP CLI ARP cache CLI OSPF neighbors CLI EIGRP neighbors
Configuration Management	Configuration Capture Configuration Revision History Configuration Comparison Change Tool Output Comparison Configuration Restore Full-text search IOS Image Backup
Device View	Inventory Management Sort by Backup Status Custom Fields
Device Property Collection	OS Version Make/Model Memory CPU Serial Number Card/Slot information Device Picture Display
Search Capabilities	Specific IP (IPv4 and IPv6) Devices in Subnet (IPv4 and IPv6) Interface IP search Hostname (including wildcard) Make/Model (including wildcard) OS Version (including comparison operator) Changed Date Backup Status Custom Fields Serial Numbers Custom Tags Full-text Configuration Network-wide Switch-Port/IP
Change Tools	Configuration Restore Command Runner (multiple commands) Enable/Disable Interfaces IOS Software Distribution Login Banner (MOTD) Name Servers Manager NTP Servers Port VLAN Assignment SNMP Community Strings SNMP Trap Hosts Syslog Hosts Static Routes (add/delete) Add/delete device user account Enable password change VTY password change Local User password change Perform backup after tool completes

Bulk Update (SmartChange)	Template based configuration change with CSV import for multiple devices Excel file import and export Add custom menu Set schedule
Information Tools	DNS Lookup IP Routing Table Live ARP Table Ping IOS show commands Open port scan Traceroute SNMP System Information Interface Summary
Reporting	Software Summary Network Hardware Summary Credentials/Protocols Backup Summary Configuration Changes Hardware Hardware Changes Inventory PDF or HTML E-Mail support
Export	Device Configuration in ZIP Output for performed Tool in ZIP Device Property information in XLS
Terminal Proxy	SSH access to server Remote access to server User operational log history Search operational log Export operational log
Cisco PnP• (Option)	Automatic forwarding of IOS configuration Import and export of configuration template

LiveNCA Device Support

AIO Networks	ACOS
Ad Tran	Netvanta
Apresia Systems	Apresia
Alaxala Networks	AX-S Series
Alcatel-Lucent	OmniSwitch TIMOS
Allied Telesis	FS900M 8700SL X Series
Allied Telesyn	Rapier
Alteon	AD3
Anristu	PureFlow
APC	smartUPS
BlueCoat	Proxy5G
Brocade	Fabric OS Network OS Edgelron FastIron
Cabletron	Switch
CEC	Network Device
Century Systems	NXR
Checkpoint	SecurePlatform VPN1 Edge Firewalls
Cisco Systems	ACNS Platforms Wireless LAN Controller ArrowPoint CatOS CS500 GSS Appliances IE Switch Series IOS IOS-XR Linksys LocalDirector MDS Series SAN-OS Nexus Security Appliances Service Control Engine Small Business Switch 3000 Series VxWorks WAAS Platforms WLSE ACSW ACI
Citrix	NetScaler
Cumulus Networks	Cumulus
Dell	PowerConnect
D-Link	DGS Series
Dyden	Media Converter
Enterasys	Matrix SecureStack Switches SSR VerticalHorizon
Extreme	Convergence Switch XOS VSP ERS
F5 Networks	BIG-IP threedns

Fortinet	FortiGate
Foundry	Edgelron FastIron
Fujitsu	CFabric IPCOM SR-S Series/Si-R Series
Furukawa Electric	FX Series
H3C	Switch
Hirschmann	RailSwitch
HP	ProCurve Pro Curve M ArubaOS
Huawei	VRP Software
Juniper Networks	DX Junos Wireless LAN Control ScreenOS
Mitsubishi Cable	ST
Mikrotik	RouterOS
NEC	IX Series PF Series SpectralWave Series WA Series
Netgear	Switch
Nexans	Switch
Norte	Accelar BayRS BayStack Contivity Passport Passport-1600 Tiara
Palo Alto Networks	PA-500 Series
PICAB	PicOS+
Redhat	Linus/CentOS
Riverbed	Steelhead
Sonicwall	SonicOS
Vyatta	OFR
Yamaha	RT/RTX
Ruckus	ZoneDirector
Panasonic	Switch eG Series
Watchguard	Firebox/Fireware OS

LiveNCA Management

Job Scheduling	Configuration Backup Change/Informational Tools Reports Device Discovery Daily schedules Weekly schedules Monthly schedules Custom schedules Time-window Filters
Job History	Interactive execution history Scheduled execution history Execution start/stop time Execution user Execution group
Configuration Mismatch	Detect and display compliance violation of startup-config and running-config Rollback (copy startup-config into running-config) Commit (copy running-config into startup-config)
Change Adviser	Check the configuration before pushing and generate shortfall automatically
Draft Configurations	Reflect newly made text as configuration to device
Compliance Check	Custom rule Filtering for applying devices Trap for detection or resolution of the rule Pie chart for violation devices Real-time status icon
Credentials/Protocols	Assignment by Specific IP Assignment by IP Range Assignment by Subnet Excel import for multiple credentials
Access Control	Easy settings in GUI Add users Set roles Active Directory Server coordination (Radius)
Server Settings (GUI)	Scheduled System Backup Quick System Backup SmartBridges (Option) Networks Software Update Data Retention SNMP Traps Mail Server

Customer Tags	Organize devices by tags Multiple tags per device Tag search (with AND/OR logic)
Replication (Option for Linux)	Replication by Master and Slave server Data Synchronization Sending trap during system failure Migration from stand-alone configuration
Web Interface	Edge Firefox Safari Remote access
API	Public API JSON-RPC Multiple-language support
Network Manager Interaction	Custom menu to open netLD configuration diff from device icon (only with SNMPc Network Manager) SNMP traps in an event of such as device added or deleted
Customization	Devices Adapters Device Tools Language (Perl)

LiveAction

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LiveAction provides end-to-end observability of network and application performance from a single platform. This gives enterprises the confidence that the network is meeting business objectives, offers IT administrators full visibility for better decision making, and reduces the overall cost of operations. By unifying and simplifying the collection, correlation, and presentation of application and network data, LiveAction empowers network professionals to proactively and quickly identify, troubleshoot, and resolve issues across increasingly large and complex networks.

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