

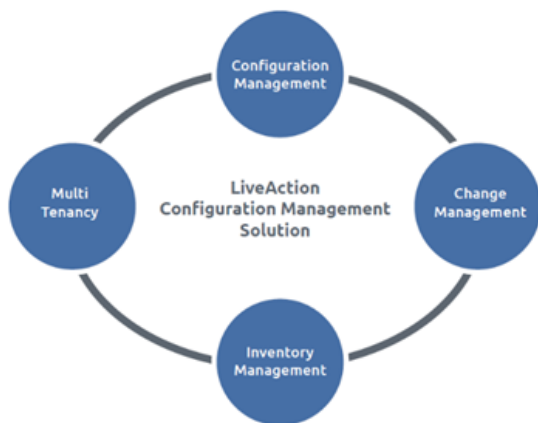
Network Configuration Automation

The LiveAction Configuration Management integrates automated device discovery for a comprehensive multivendor asset inventory repository. This single configuration database establishes and maintains the basis for configuration management lifecycle across the enterprise environment.

Overview

Configuration Management

The LiveAction Configuration Management integrates automated device discovery for a comprehensive multi-vendor asset inventory repository. This single configuration database establishes and maintains the basis for configuration management lifecycle across the enterprise environment. Configuration Management applied over the life cycle of network elements establishes a system of record for assets and inventory visibility and control of configuration, management reporting and performance.



Change Management

Change Management automation reduces risk of manual mistakes, while supporting a collaborative approach by reviewing the plan for change before executed. Change Management spans people, process and technology. LiveNCA enables automated processes to see, analyze and control

Inventory Management

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

LiveNCA Capabilities

Configuration Management

- See existing configuration and compare it against new configurations
- Edit and create configuration 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, 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 what commands will be run to restore back to the selected configuration
- Real-time change detection

SmartChange

- Apply unique changes to multiple devices at the same time

Compliance

- Retain 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, Bridge

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 always revert to a known working state. Change Advisor compares the current running or a draft configuration with the prior configuration and generate 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 configuration, either running or startup. Draft can then be compared to existing configuration to verify that only the parts you expect to change are actually affected.

SmartChange

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

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 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 infrastructure.

Start-up Wizard

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 configuration devices and quickly restores them back into production.

Systems Integration

LiveNCA offers a wide breadth of APIs to facilitate the integration with network management, service management and asset management systems.

Compliance

Real-time compliance detects and reports 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. 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. With user defined triggers a schedule is specified for periodic cycles, repeated tasks including historic jobs.

LiveNCA Key Configuration Parameters

Parameters	Functional Item	Parameters	Functional Item
Device Discovery	SNMP CLI ARP cache CLI OSPF neighbors CLI EIGRP neighbors	Change Tools	Configuration Restore Command Runner (multiple commands) CLI OSPF neighbors 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
Configuration Management	Configuration Capture Configuration Revision History Configuration Comparison Change Tool Output Comparison Configuration Restore Full-text search IOS Image Backup	Bulk Update (Smart Change)	Template based configuration change with CSV import for multiple devices Excel file import and export Add custom menu Set schedule
Device View	Inventory Management Sort by Backup Status Custom Fields	Cisco PnP* (Option)	Automatic forwarding of IOS configuration Import and export of configuration template
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		

LiveNCA Network Device Support

Anritsu PureFlow	APC smart-UPS
Apresia	Aruba ArubaOS
Blue Coat ProxySG	Brocade Silkstorm
Check Point SecurePlatform VPN1 Edge Firewalls	CheckPoint
Cisco ACNS Platforms	Cisco Airespace Controller
Cisco CatOS	Cisco CS500
Cisco CSS/ArrowPoint	Cisco GSS Appliances
Cisco IOS	Cisco LocalDirector
Cisco Nexus	Cisco SAN-OS
Cisco Security Appliances	Cisco VPN
Cisco VxWorks	Cisco WAAS Platforms
Cisco WLSE	Citrix NetScaler

LiveNCA System Requirements

Operating Environments

Component	OS	Version
Operating Systems	Linux OS	-CentOS 6, CentOS 7, -RedHat 6, and RedHat 7 -Only 64bit operation systems are supported.
	Windows OS	-Windows Server 2008 R2 -Windows Server 2012 -Windows Server 2012 R2 -Windows Server 2016
	VM Ware	-vSphere