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## Agenda - Day 1

- . LiveNX Overview & Architecture
- The LiveNX WebUI
  - Dashboards
  - Sites/Devices/Interfaces
  - Reports Overview
- System Management
- · LiveNX Engineering Console

  - Reports
- Visualizations & Troubleshooting
  - · Voice, Video, Delays

- Add & Manage Devices
  - Adding Devices
  - Grouping & Objects
  - Device Semantics
- Flow Collection
- Topology Definition
- · More Dashboards, Reports and Alerts
- Custom Filters
- Implementation Best Practices
  - · Installation Considerations
- · Deployment Strategies

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## Agenda - Day 2

- · Quality of Service

  - Classification & Marking
  - Queueing & Shaping
  - Policing & WRED Buffer Tuning
- QoS Best Practices
- LiveAction SD-WAN
  - Cisco/Viptela SDWAN Overview
  - LiveNX SDWAN Integration Overview
  - · Day 0: Cisco SD WAN Planning for Deployment LiveNX SDWAN Onboarding
  - . Day 1: Cisco SD WAN Policy Validation and Intent
  - Day 2: Cisco SD WAN Operations

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<ul> <li>Daily Schedule</li> </ul>	Equipment	
• Start	• Laptops	
Breaks	Internet A	ccess
• Finish	eLab Acce	ss
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Your Trainer...

Nate Richie

Senior Consulting Engineer, Advanced Services Team Interim Manager, Advanced Services Team

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## Prerequisites

- You already:
  - Have a basic knowledge of applications, networking, and protocols...
  - Understand TCP/IP, network addressing, and subnet masks
  - Know basic router & switching concepts
  - Manage NetFlow devices within your environment





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## And you are...

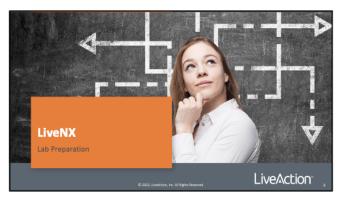
- Name ?
- What do you do at your company ?
- · Have you used LiveAction Products?
- What Product Certs do you maintain? (Brag if you must;-)
- · What was your first car?

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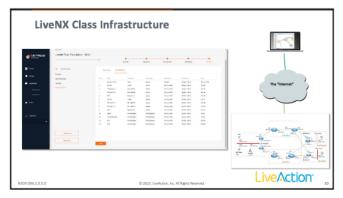
# Our Training Infrastructure

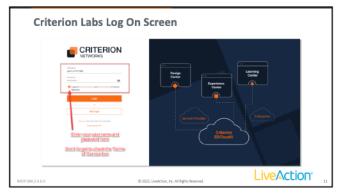
- Each attendee will connect to a dedicated "Training Pod"
- The Instructor will provide credentials for each attendee
- All Pods are monitoring similar traffic flows.
- We'll connect over the Internet and run a Browser and Eng Console locally.
- Initial device configuration has been performed on all Training Pods.

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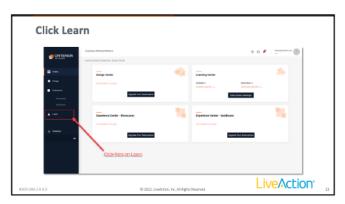
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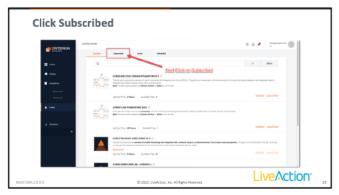
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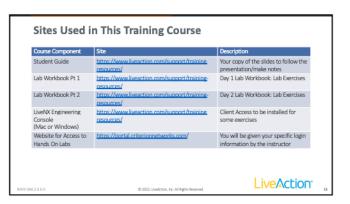
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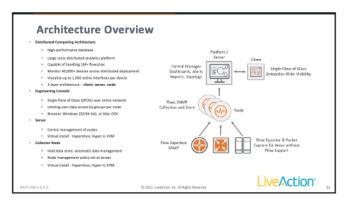
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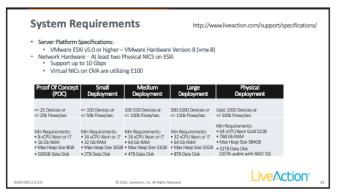




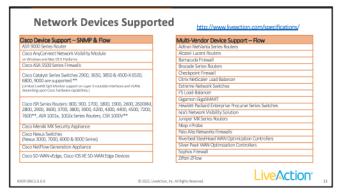


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### Bandwidth Overhead - Server/Node - Data is stored on the Collector Nodes · Server requests data from Node(s) on demand In case of loss of communication, server may initiate to reestablish communications Minimal synchronization communication between the Server and Node(s). · "Keep alive" (not really... more a "I have new data!") Bandwidth is proportional to the number of devices being monitored by each Node . End user actively monitoring LiveNX also increases bandwidth. Node to Server Traffic (Avg./Peak) Devices Per Node Examples of Node/Server 625Kbps/ 1.75Mbps 25Kbps-125Kbp Bandwidth 50Kbps/ 250Kbps 1.25Mbps/ 2.25Mbps LiveAction<sup>\*</sup>

## **LiveNX Flow Capabilities**

LiveNX is a flow collector

- Supports NetFlow V5/V9, FNF, sFlow, jFlow, IPFIX, and other multi-vendor flow types
- Provides unique end-to-end flow visualization for a holistic view of the network
- Provides hop by hop color-coded application and flow path analyses for network and application performance issues
- · Visually shows mis-marked DSCPs for traffic priority
- · Easily enables Cisco advanced flow technologies
- Topology can be exported to Visio
- Keep all raw data as long as there is sufficient disk space

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## **LiveNX Communication with Devices**

LiveNX uses SSH or Telnet access to read IOS configurations, as well as to make desired configuration changes to the device(s);

- QoS Configurations
- Netflow Configurations
- IP SLA Configurations
- Policy Based Routing

LiveNX does not save the router configuration in our database!

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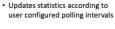
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## **LiveNX Communication with Devices**

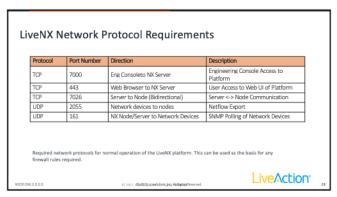
- LiveNX uses SNMP v2 or v3 RO (Read Only) access to devices
- Polling for reading the MIB (Management Information Base)
  - CBQoS MIB
  - IP SLA MIB
     LAN MIBs
  - LAN MIBs
     Routing MIBs
- Undates statistics accoun





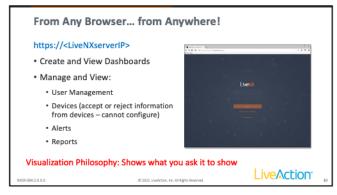
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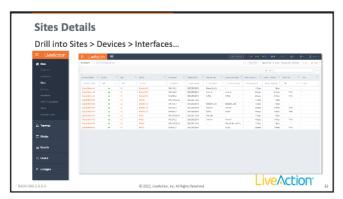




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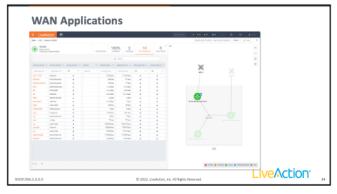


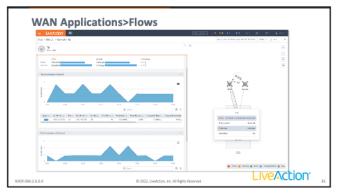




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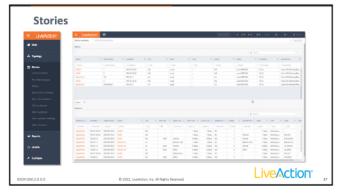






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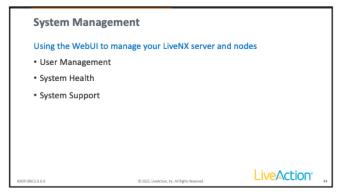
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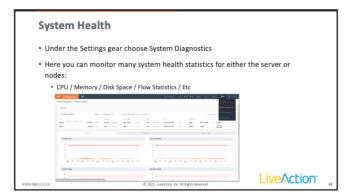


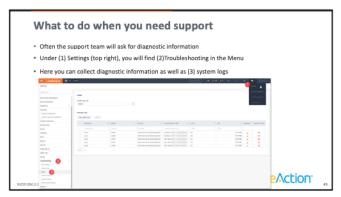


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# User Groups User Groups can be used to segment, or limit, the access of users in the group Specific Sites Specific Devices Specific Regions Select entity pages can also allowed/omitted Select Reports can be allowed/omitted Users can be added from the Group Config page Users can only be in ONE group

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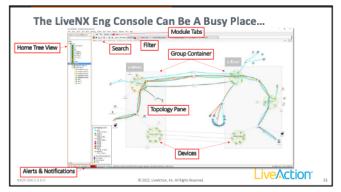


## The LiveNX Client is... Your Device Configuration Tool

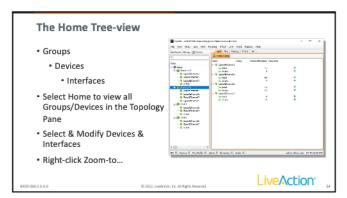
- A Java client application
- Runs on a standard Windows 32/64-bit PC
- LiveAction's Mac client runs on OSX .9+.
- View & Configure:
  - Devices (can access CLI and configure your devices)
  - Alerts
  - Reports

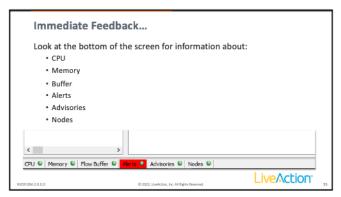
Visualization Philosophy: Shows all, remove what you don't need to see
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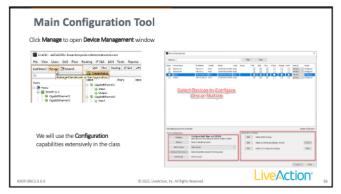
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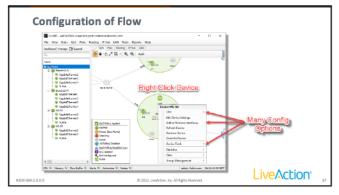
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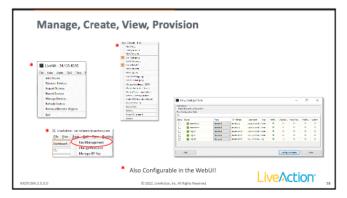






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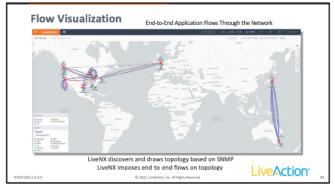


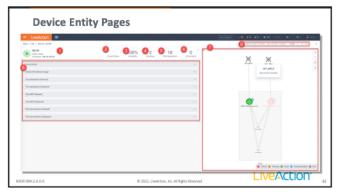




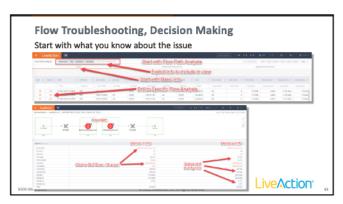
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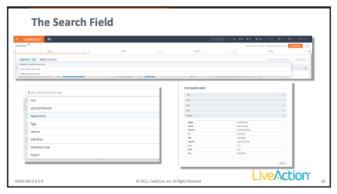


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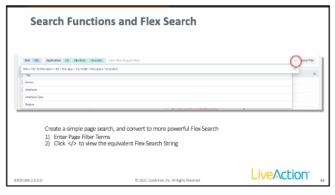




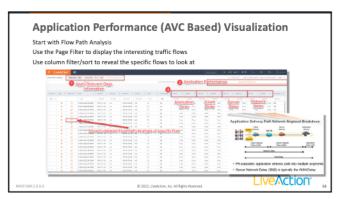
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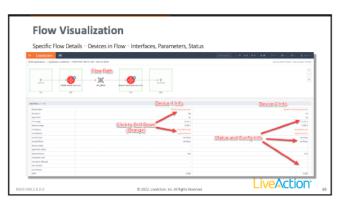
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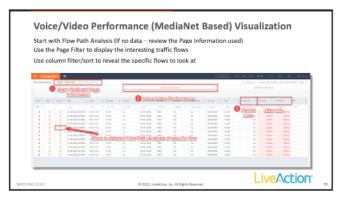






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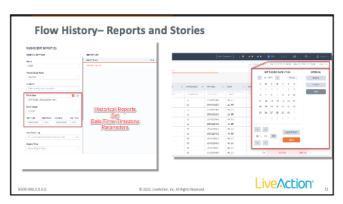




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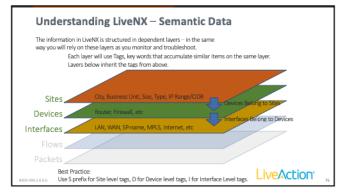


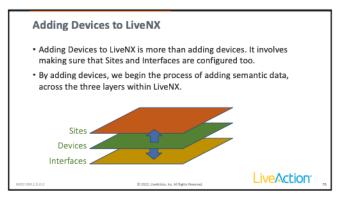
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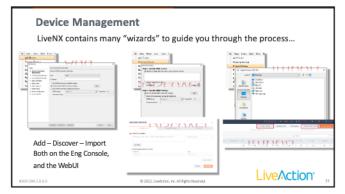


# LiveNX WebUI — Perspective LiveNX through the WebUI acts as a framework to help you visually monitor and troubleshoot your network devices... • Structured around three levels: • Sites (Level 1) • Devices Level 2) • Interfaces (Level 3) • You can view traffic as: • Site to Site • By Device • Flow – by DSCP, Application (or App Group), Source AND/OR Destination (site, IP, Port), Tag Tags are your best friend – Let them support your work in LiveNX

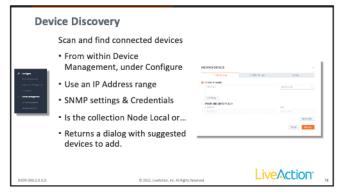




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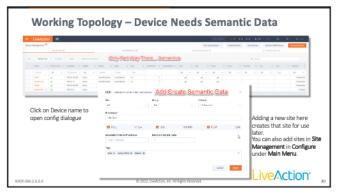


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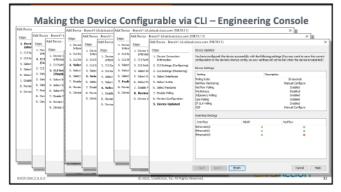


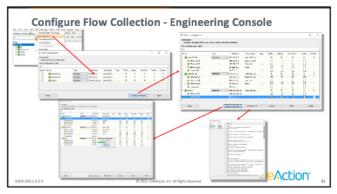
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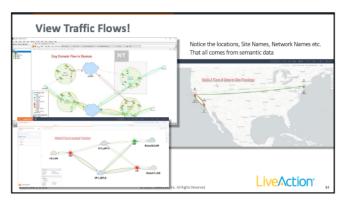
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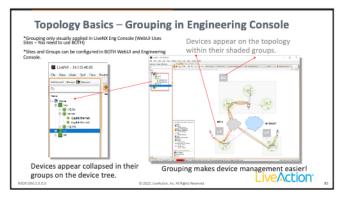




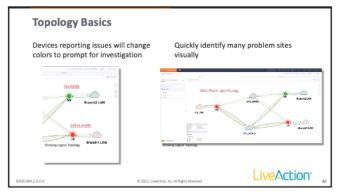


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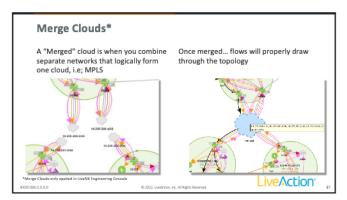


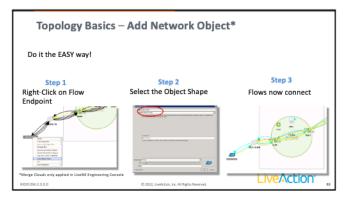


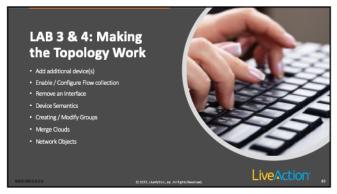
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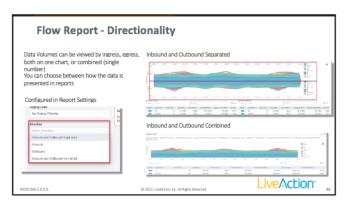
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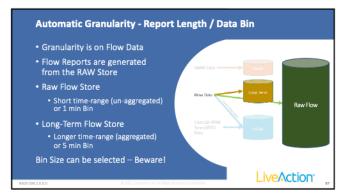




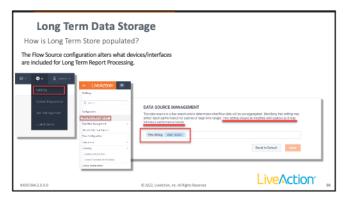


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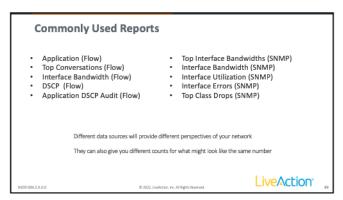


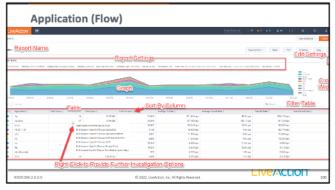


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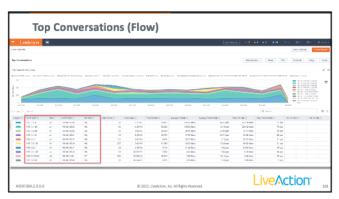


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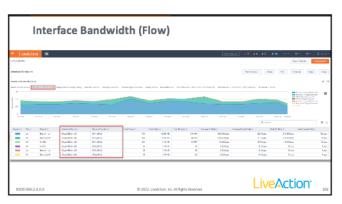




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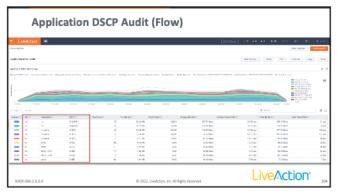


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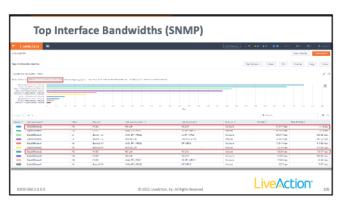


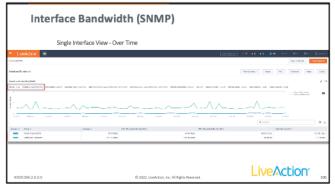


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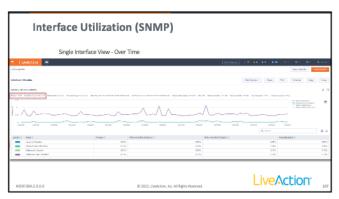


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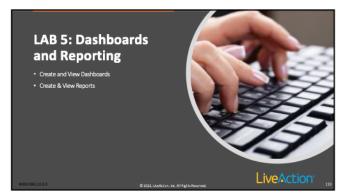


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### Flow Collection

- The industry standard for flow type is "IPFIX"
  - Cisco uses sflow for certain devices types, such as Nexus 5k Switch
- · Netflow is a brand name for Cisco Flow
- Like Jaguar is a brand name for an automobile
- Juniper uses a flow type called "jflow"
- LiveNX can ingest most types of flow technology
- If a Flow Export is v5, v9, or IPFIX LiveNX can gather that information!

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### Configure NetFlow Monitoring (LiveNX Engineering Console)

- Two types of Cisco Netflow Traditional and Flexible
  - Traditional an older flow type that uses a set record that cannot be configured
  - $\bullet\,$  Flexible newer flow type that allows for more granular record configuration

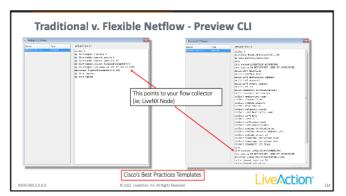


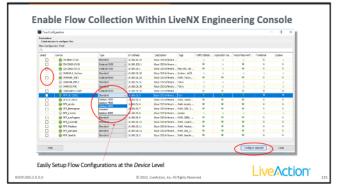
- Traditional Netflow should only be used if Flexible is not available!
  - LiveNX can discover what type of Netflow is supported and configure it for you!
    - LiveNX will not let you configure both Traditional and Flexible on the same interface

Remember: Configuration of devices is achieved through Engineering Console – or other configuration too

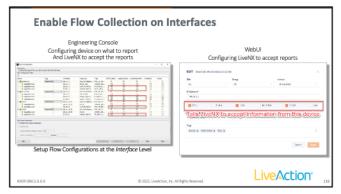
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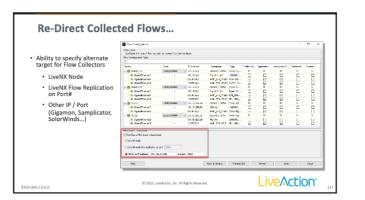


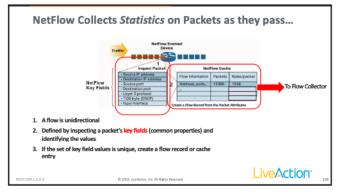


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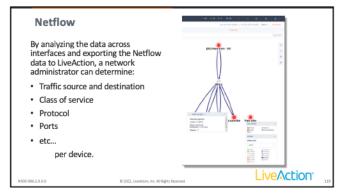


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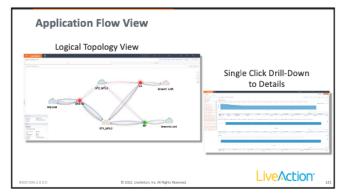


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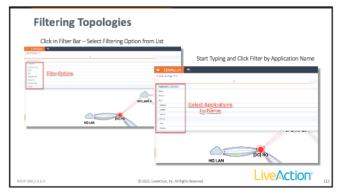


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## • LiveNXcan also ingest the following types of flows: • NSEL Flow (Network Security Event Logging) • Cisco ASA firewalls • Zone Based Firewalls (ASR, ISR4k) • Wireless Flow (SSID, Wireless Client, Access Point information) • Wireless Lan Controllers • Cisco 3850 Switches • "Unknown" (SFLOW, IFLOW, almost any flow technology using v5, v9, or IPFIX Export protocol)

### Netflow Performance Monitors; AVC & Medianet

- AVC and Medianet use a Netflow Performance Engine that captures advanced metrics about a flow
- AVC (Application Visibility and Control) is Application Response Time (ART) for TCP applications
  - LiveNX leverages AVC to assist users with troubleshooting TCP performance in the network such as application delay, application response time, and network delay.
- Medianet is a Media Monitoring (MMON) engine that collects voice and video performance parameters, such as jitter and loss, in a network
  - LiveNX leverages Medianet to assist users with understanding RTP (Video, Teleconference, VOIP) Performance

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### **Netflow Performance Monitors; AVC and Medianet**

- AVC \* and Medianet \* are available on:
  - Cisco Integrated Services Routers Generation 2 (ISR G2)
  - Cisco ASR 1000 Series Aggregation Service Routers (ASR 1000s)
  - · Cisco ISR 4k routers.
  - Cisco Wireless LAN Controllers
- LiveNX's AVC and Medianet Templates may be pushed to supported devices through its' GUI
- \* Separate License Purchase From Cisco

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### Network Based Application Recognition (NBAR2)

- NBAR2 uses the Service Control Engine (SCE) with advanced classification techniques called PDLMs (Packet Description Language Modules). This engine inspects packets through the actual payload of the traffic.
- Much more accurate classification of traffic rather than only based-upon IP and port number
- · NBAR2 is Cisco's standard cross platform protocol classification mechanism.
- supports <1400 application and sub application definitions.</li>
- Cisco updates NBAR2 protocol packs regularly to match new application definitions.
  - LiveNX recommends updating protocol packs as they come out.
- http://www.cisco.com/c/en/us/td/docs/iosxml/ios/OoS\_nbar/prot\_lib/config\_library/nbar-prot-pack-library.html

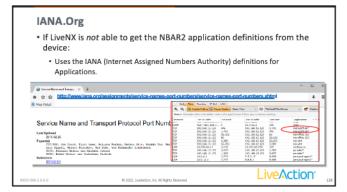
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# • How does Deep Packet Inspection help? • For example, Most web traffic is HTTP • IANA Port for HTTP is 80 • NBAR2 can still define the Application • LiveNX uses NBAR2 in Flow records for detailed application information • You can use NBAR2 definitions for granular QoS configuration • If your application is not known, you can set a NBAR application on the CLI • If NBAR2 is supported, LiveNX will push the configuration to the devices during Netflow configuration

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### **Using Flows for QoS**

- Quality of Service (QoS) refers to the capability of a network to prioritize provide better service to selected network traffic over various applications
- Without QoS policies, each packet is given equal access to network resources.
  - For example, Voice and Video applications are delay and jitter sensitive. If a FTP transfer and
    a Voice transfer are both being processed through the same interface at the same time, then
    the Voice transfer could have to wait until the FTP packets are processed. This could result in
    dropped voice packets and complaints by the those utilizing the voice application.
- Using QoS a network administrator could prioritize those Voice packets over the FTP packets, ensuring good quality for those utilizing the Voice application.

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### **Differentiated Service Control Point (DSCP)**

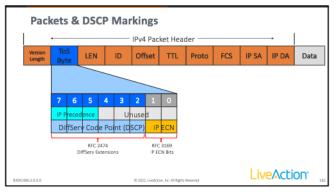
- Depending on your network, you would define which traffic needs priority, then mark the traffic with the correct DSCP values.
- These values may then be used to give priority to traffic throughout the network, specifying Per-Hop-Behaviour.

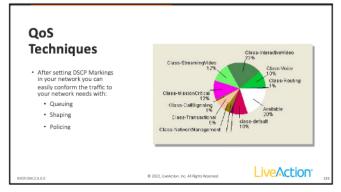
Application	L3 Classification		IETF
	PHB	Decr	RFC
Network Connel	CSK	48	BFC 2474
Vo I' Telephony	EF.	-46	DF C 3246
Breadcast Video	085	40	HFC 3474
Muhimedia Confesencing	AF41	34	RFC 2597
Real Time Interactive	084	32	RFC 3474
Multimodia Streaming	AF31	26	BFC 2597
Cal Signaling	CSa	24	H-C 2474
Low Latency Outs	AF21	18	RFC 2597
CAM	CS2	16	BFC 2474
High-Troughout Date	AF11	10	RFC 2597
Best Edoct	BF	c	RFC 2474
Low Priority Cata	081	9	RFC 3562

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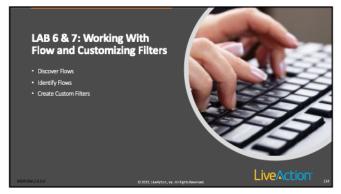
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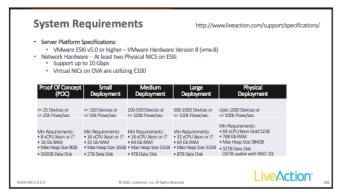


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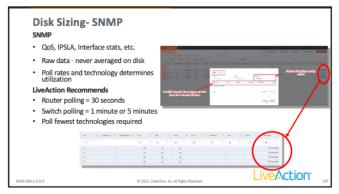


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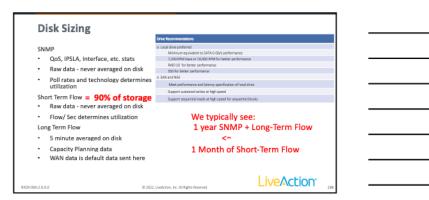


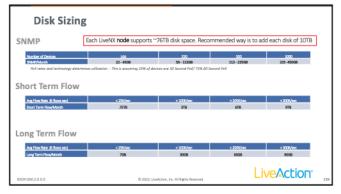


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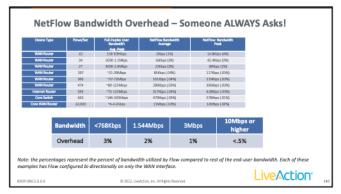


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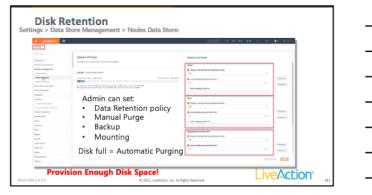




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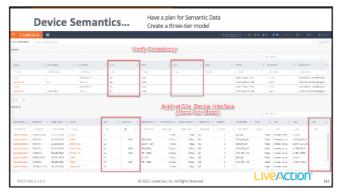


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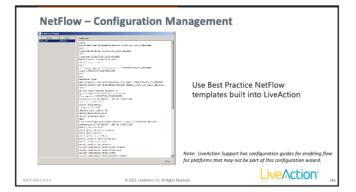


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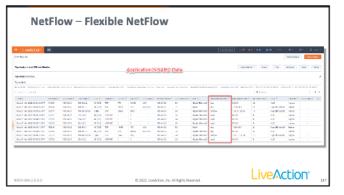


NetF	ow Best Practices		
Use I Use I Use I Use I Use I Use I	iveAction to deploy NetFlow lexible NetFlow when possible* IBAR2 and standardized on Protocol Pack letFlow v9 or IPFIX let Flow on the fewest interfaces possible anet and AVC on WAN interfaces only for routers lood IOS for Medianet and AVC		
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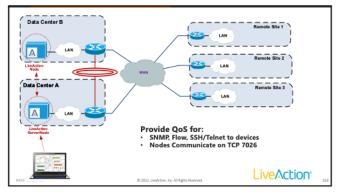
## NetFlow — Where to Enable Flow? The Fewest Interfaces Possible! Why? • Most Efficient • Lowers CPU, bandwidth consumption, disk space Routers • Usually WAN Interfaces Only Switches • Watch CPU if lots of interfaces are enabled with Flow • If switch only supports ingress Flow, use fewest interfaces that provides required visibility • If switch support ingress/egress Flow, typically only uplinks required

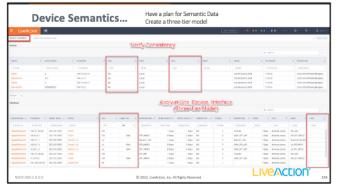
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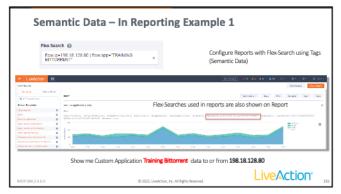


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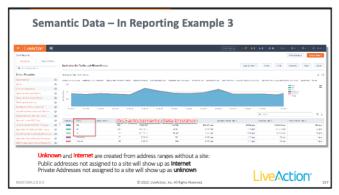


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### Agenda - Day 2 • Quality of Service • Concept Overview • Classification & Marking • Queueing & Shaping • Policing & WRED • Buffer Tuning • QoS Best Practices • LiveAction SD-WAN • Cisco/Viptela SDWAN Overview • LiveNX – SDWAN Integration Overview • Day 0: Cisco SD WAN Planning for Deployment • LiveNX – SDWAN Onboarding • Day 1: Cisco SD WAN Policy Validation and Intent • Day 2: Cisco SD WAN Operations

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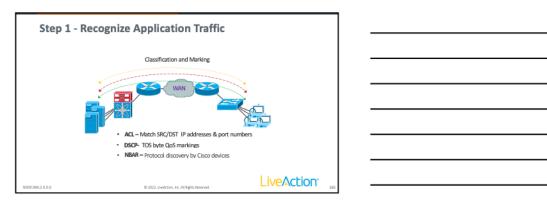
## Agenda - Day 2 • Quality of Service • Concept Overview • Classification & Marking • Queueing & Shaping • Policing & WRED • Buffer Tuning • QoS Best Practices • CONS. Diedeloo. For. All Rights Fearmed. • Cisco SD WAN Operations • Day 2: Cisco SD WAN Operations • Day 2: Cisco SD WAN Operations

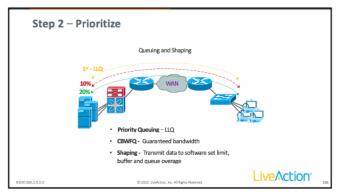


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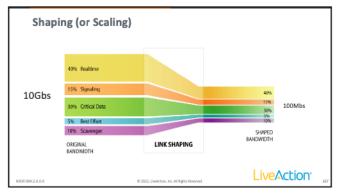
How to Im	plement QoS	
Step 1 - Recogni	ize Application Traffic(Classification and Ma	arking)
Step 2 - Prioritiz	e (Queuing and Shaping)	
Step 3 - Throttle	Traffic (Policing and WRED)	
Step 4 - Buffer T	uning	
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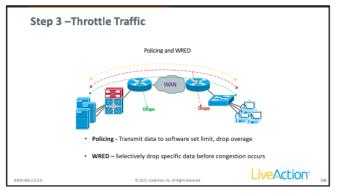


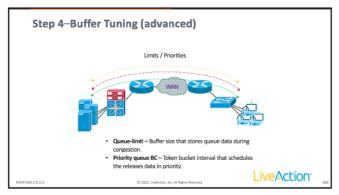


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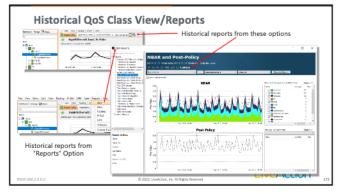
### LiveNX QoS Baseline

- Configuring QoS Control on the network is very important, but if you do not have a good understanding of your current network traffic... implementing QoS could cause issues.
- You can baseline your network performance with NBAR2 reports or Netflow reports before implementing QoS Control
- Baselining allows you to see current traffic trends and understand if your policy will meet your network needs.

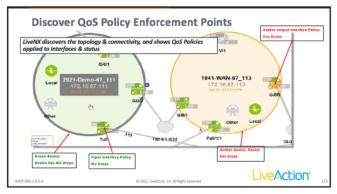
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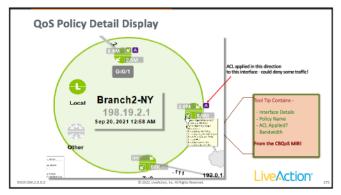


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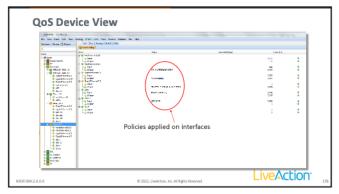
### What is an ACL (access control list)? In the Cisco IOS, an access control list is a record that can be used to identify traffic, which can even be used to manage traffic. After identifying that traffic, an administrator can specify various actions that can happen to that traffic. You can use an ACL as a packet sniffer to list packets that meet a certain requirement. For example, if there is specific traffic on your network that you want to match for a QoS policy, you can use an ACL to identify that traffic to

better control it

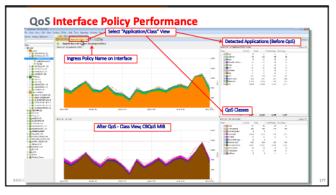
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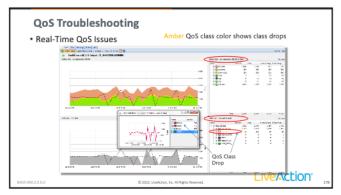


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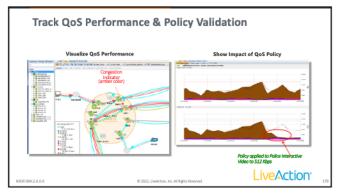


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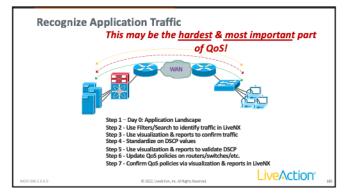


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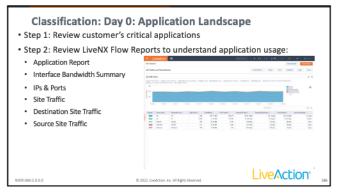
## Full MQC (Modular QoS Configuration) support including WRED, CBWFQ, Priority Queuing, Shaping Read pre-existing QoS policies already configured on devices Take snapshots of current QoS configuration for future use Apply or remove QoS configurations quickly and easily across multiple interfaces Copy QoS policies across multiple devices, including associated ACLs (Access Lists) Hierarchical policy creation for advanced configurations CLI command preview before applying policy Rollback to previous policies at anytime\* Built-in rules for QoS settings that highlight violations

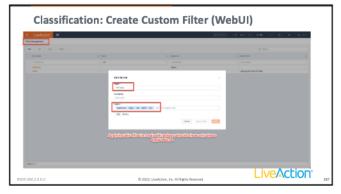


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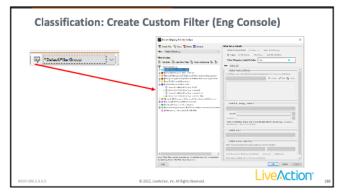


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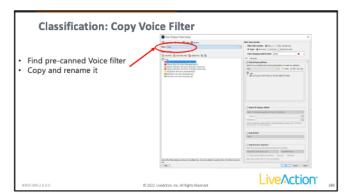




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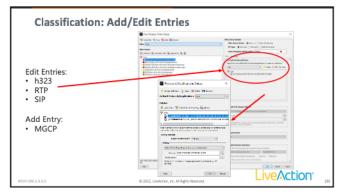


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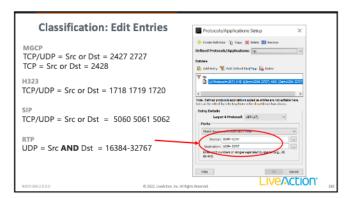


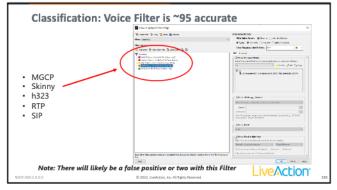


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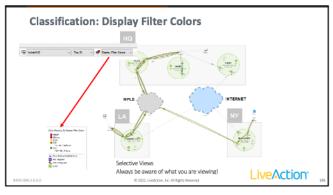


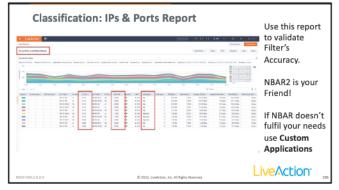


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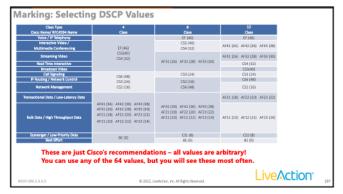


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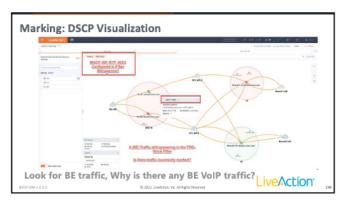


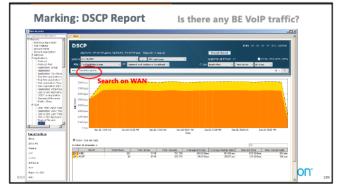


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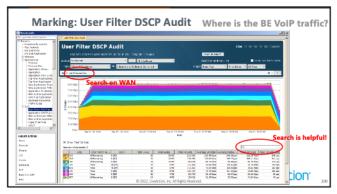


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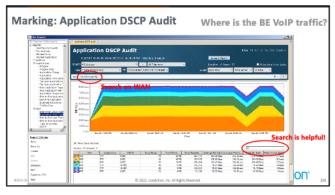


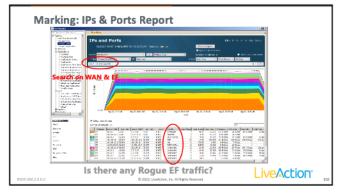


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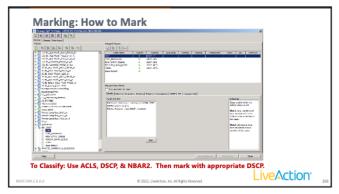


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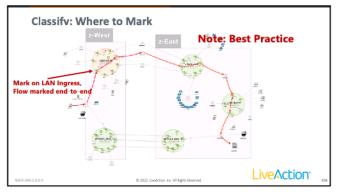


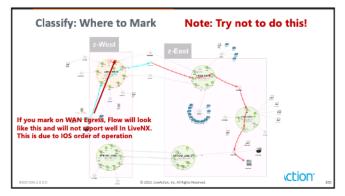


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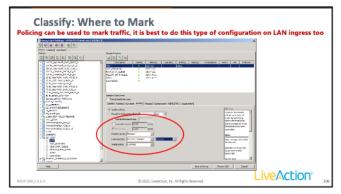


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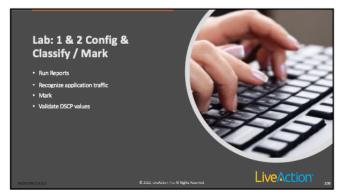


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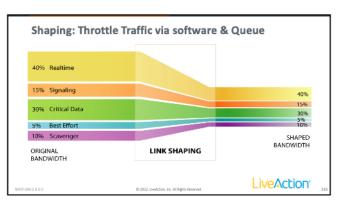
Classify: Next	Steps?	
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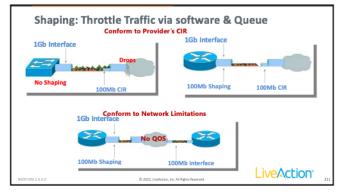


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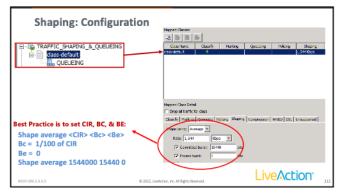


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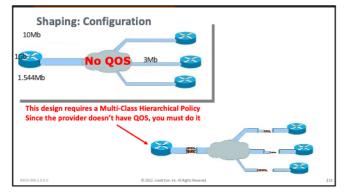


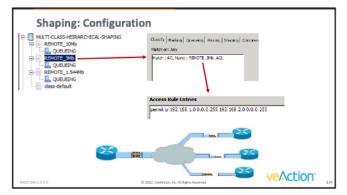


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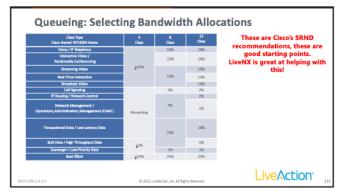


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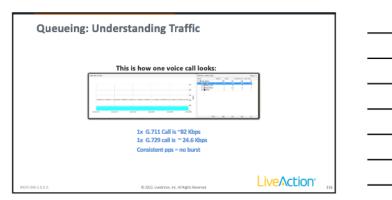


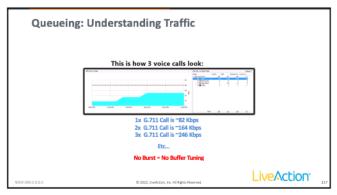


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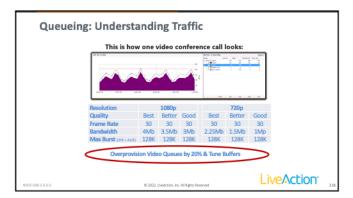


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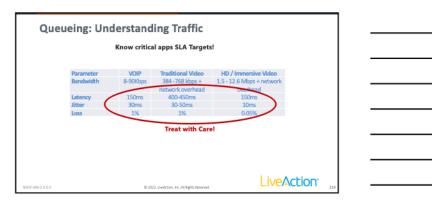


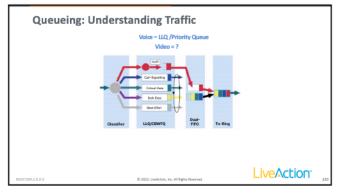


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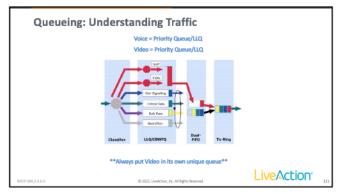


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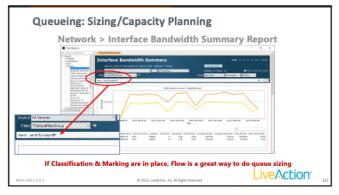


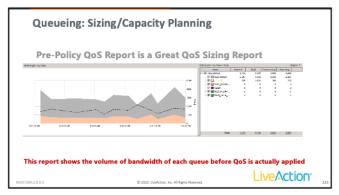


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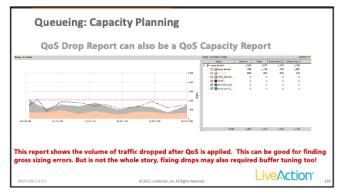


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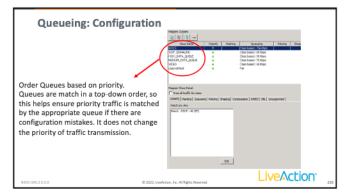


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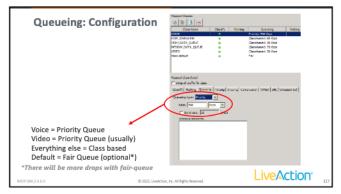


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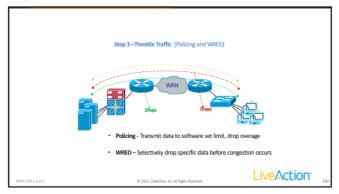


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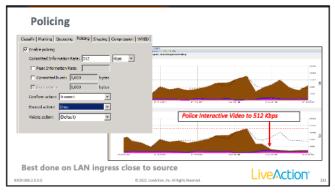


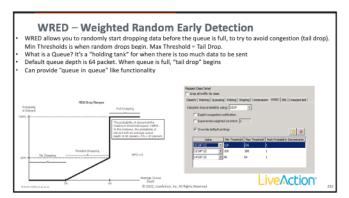


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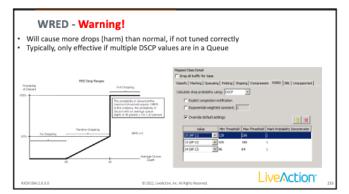


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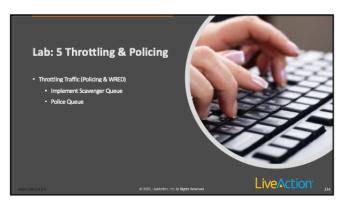




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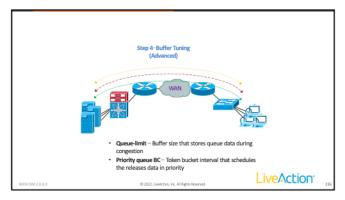


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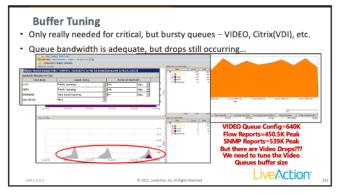


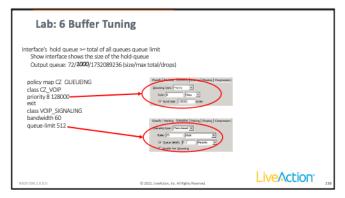


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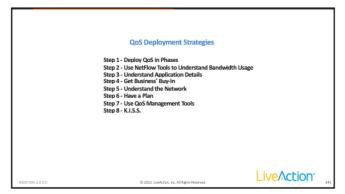


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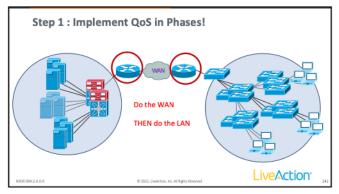


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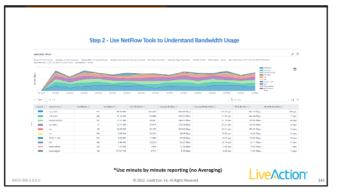


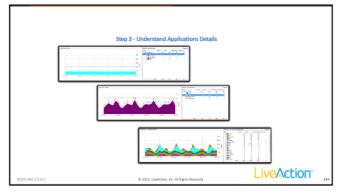


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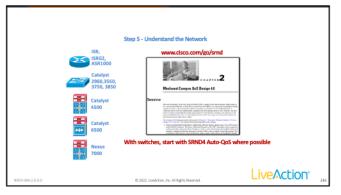




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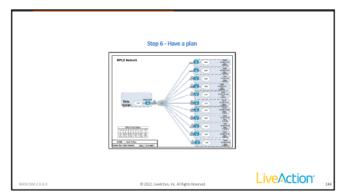


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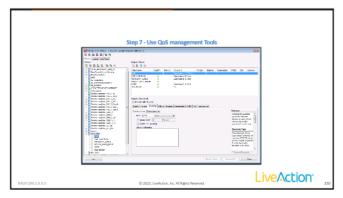


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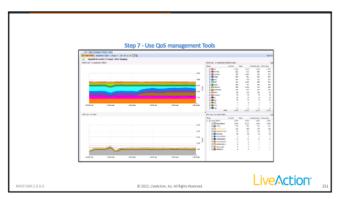


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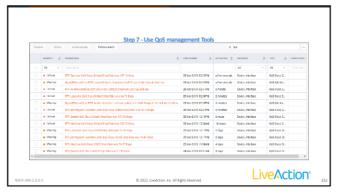


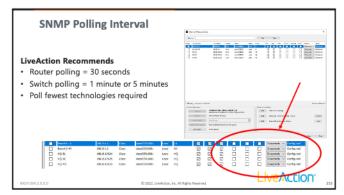


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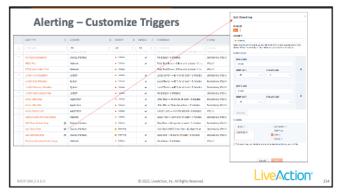


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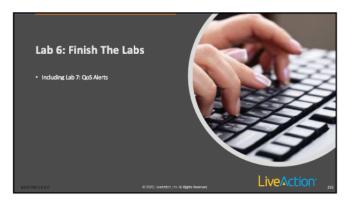




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### Agenda

- Cisco/Viptela SDWAN Overview
- LiveNX SDWAN Integration Overview
- Day 0: Cisco SD WAN Planning for Deployment
- LiveNX SDWAN Onboarding
- Day 1: Cisco SD WAN Policy Validation and Intent
- Day 2: Cisco SD WAN Operations

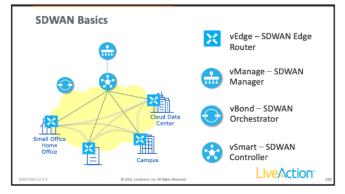
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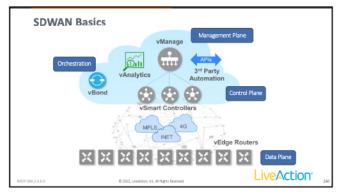
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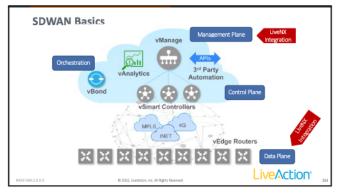




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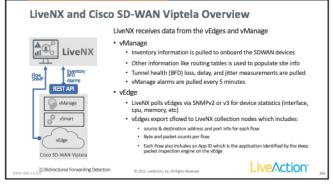


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### **Network Preparation - Summary**

### Required Tasks

- Collect management IP range for the Cisco SD-WAN (Viptela) vEdge routers
- Enable SNMP v2/v3 RO access for LiveNX monitoring
- Collect SNMP v2/v3 community/password
- Configure centralized data policy to enable Flow on LAN Interfaces
- Set Flow active timeout = 60 sec
- Set Flow inactive timeout = 15 sec
- Collect vManage hostname/IP address, username and password
  - Used for polling northbound API's from vManage (Inventory, BFD, Alarms, etc)

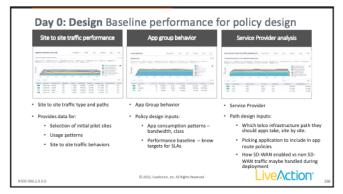
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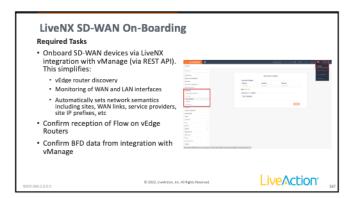
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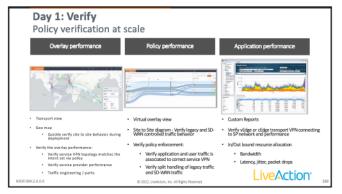


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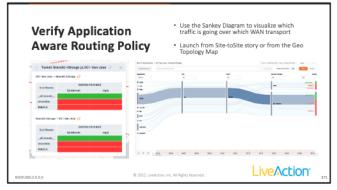


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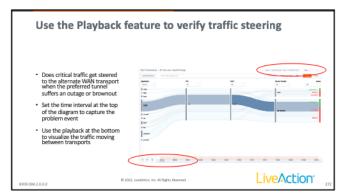


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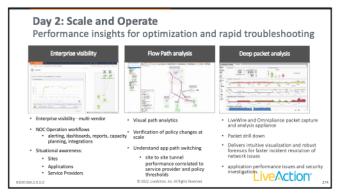


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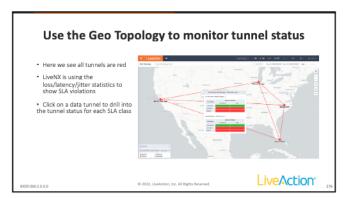


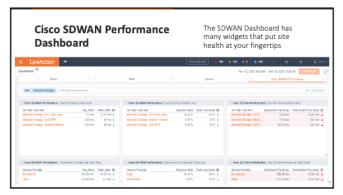


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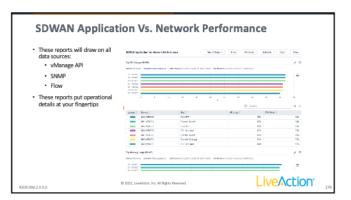




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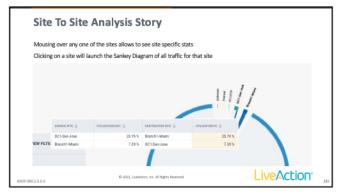


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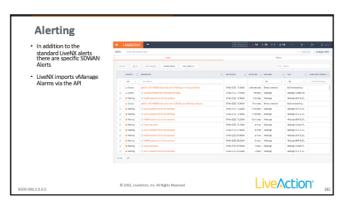




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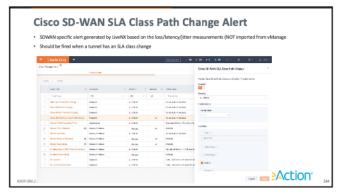


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# Training Resources You will get these resources in an email - Videos: <a href="https://www.liveaction.com/resources/litrateenry.videp">https://www.liveaction.com/resources/litrateenry.videp</a> - Tips and Tricks: <a href="https://www.liveaction.com/riso-and-tricks">https://www.liveaction.com/riso-and-tricks</a> - White Papers: <a href="https://www.liveaction.com/risources/litrateenry.white naners.solution.briefs">https://www.liveaction.com/risources/litrateenry.white naners.solution.briefs</a> - Documentation: <a href="https://docs.liveaction.com/">https://docs.liveaction.com/</a> - Documentation: <a href="https://docs.liveaction.com/">https://docs.liveaction.com/</a>

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Course: Intro to LiveNX

Instructor Name: David Lau

Thank You in advance for your participation!

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