NPM and Threat Detection with Device Management Services (DMS) GUIDE

11

LiveAction®

Table of Contents

03	What is DMS?
03	What Products Include DMS?
03	What Problem Does a DMS Solve?
04	Technical Details of the DMS Portal
05	DMS Communications
06	DMS Registration
06	Invite
06	DMS Automatic Activation
06	DMS Functions
80	What do ThreatEye & LiveWire do?
08	ThreatEye
09	LiveWire
10	About LiveAction

		Action UVEX	LIVERX	VENEE SUPPORT CASES			
	Act	Select Templa	te 🗸 Apply		Q Search		
		Device Serial	Date	Registered Scheduled A	ction Actio	n	
	0	SV201701001384	Apr 04, 2019	No	۲	11	<₽
	0	SV201610508554	Apr 04, 2019	No	۲	11	<₽
	0	SV201701001421	Apr 04, 2019	Yes	۲	11	(گ
	0	\$V201604001250	Mar 22, 2019	Yes	۲	11	۰
	0	SV201508008429	Feb 08, 2019	Yes	0	11	<₽
	0	LR201412007447	Feb 08, 2019	No	٢	11	<₽

What is DMS?

Caption: DMS Portal

Device Management Services is a SaaS offering that pulls data from multiple devices into one console and allows global changes to be made to network devices.

The LiveAction Device Management Service (DMS) is a SaaS offering that allows LiveWire devices to be managed and monitored at scale and in bulk from a single dashboard.

What Products Include DMS?

LiveWire and ThreatEye use network probes that enable the DMS portal.

These probes are devices or programs placed on key nodes in a network to collect and monitor data and to extend network visibility to remote sites.

What Problem Does a DMS Solve?

There are many hardware and software appliances distributed throughout any given enterprise-level network. While the benefits of having packet-level visibility into the whole network are clear, the many hardware and software appliances distributed throughout a network can be difficult to manage on a large scale. A DMS SaaS solves that problem.

LiveAction provides a centralized DMS portal to manage and make global changes to all LiveWire and ThreatEye Devices on a network.



Technical Details of the DMS Portal

The DMS Portal is hosted on AWS as a part of a larger service known as cloudkeys.liveaction.com

The DMS Portal consists of the following software components:

- web server nginx
- 🕨 REST API
- authentication server okta

- database mongo
- user interface react

Liv	veAdmin	2021-11-09 19:44:51 GMT -08:00 🐣 Administrator 👻							
ñ	DASHBOARD	Omni							
*	AUTHENTICATION								
Ş	MONITOR	Device Management Server Settings							
*	NETWORK	The Device Management Server (DMS) is the preferred way to manage and configure LiveAction devices from the cloud.							
۵	OMNI	can still be made with the LiveAdmin page, but changes made with the DMS will overwrite local changes. For instructions on how to register and manage devices from the DMS, please visit MyPeek.							
٩	SUPPORT	✓ Enable DMS							
0	TIME	Apply							
	TLS								

The DMS Agent with LiveWire and ThreatEye is the liaison between the DMS Portal and the device. The DMS Agent running on the network probe, implemented as a service in the communicates using a REST-API to share data between the device and the DMS portal.

The DMS Service is an option in LiveAdmin that is enabled by default.



DMS Communications

The diagram below illustrates how the communication flow between the device, the DMS, and other cloud based services that the DMS uses.



Both sides of the DMS communicate through a REST-API. Within the DMS on the LiveAction side, the DMS service communicates with the device through the LiveAction REST-API. Our DMS supports proxy services and zero-touch configuration.

All Communications between the ThreatEye and LiveWire devices and the DMS Portal are initiated by the device. This is more secure, and practical, since most enterprise networks allow connections to be done from the inside out, but not from the outside in. This means that all LiveWire configuration made by the user through the DMS Portal are queued up, and made only when the LiveWire connects outbound to the DMS Portal. This happens when the device connects to the DMS Portal, which occurs at 10-minute intervals. For more detailed specifications of the DMS API, please contact LiveAction.

DMS Registration

When a LiveWire or ThreatEye is first connected to the network, it will reach out to the DMS Portal and register itself through zero-touch configuration. The DMS Portal will use the serial number to match the device to the entry in the database.

Invite

When a customer purchases LiveWire or ThreatEye for the first time, a DMS account is created for them, the LiveWire or ThreatEye is added to the account, and the customer is sent an invite via email to login to their new DMS Portal Account. This takes them to a login on a cloudkeys page. You will not receive a second registration email if you purchase additional DMS supported products.

DMS Automatic Activation

During the registration process, the DMS Portal will also send the serial number and locking code to the EMS to activate the device and get a product key. The result of the activation is a license file that is installed onto the device. With the license installed, the user will be able to go right to work on creating a capture, and using their LiveWire.

DMS Functions

The DMS Portal provides the following functions to the user for managing and configuring LiveWire devices:



The main UI for the DMS is a list of the devices that the customer has purchased. The list has a header row, followed by a row for each device.



The Configure Button is used to configure the devices that are currently selected. If multiple devices are selected, certain configuration options are greyed out, like the Device Name.

=	LiveAction [•]	IVEUX LIVENX	LIVEWI			SUPPORTO												
			Devic	es											Templates			
Tem	plate - Configure	Actions	Upgrade	Change	Password	Share			Select	ed: 1						Q Search		
	DEVICE SERIAL C	DEVICE NAME 0	IP ADDRESS	0 L0	CATION	O TIME ZENE		DIPERATION D., 0	VERSION		ENGINE TYPE O	SHAREAGU	e 0	SHARED USER_ 0	SCHEDULED A., O	COMPOURATIO_ 0	REGISTERED C	ACTIVITION ST_ C
	Device Serial	Device Na.,	IP Address		Location	Time Zon		Depiration	AI.	v	Al v	All	v	Shared Us.,	Scheduled	Al v	AI v	Al v
	SV201712501747	livewire-747-C	10.8.1.204			Pacific/Mid	lway	2100-01-01	21.2.3.1		LiveWire	~		2			~	~
	0V201704500001	liveaction	10.8.1.203			Pacific/Mid	lwa	2100-01-01	21.2.0.25		LiveWire	~		1	O Upgrade Qu	O Pending	~	~
	SV201701001384							2100-01-01				~		0				
	3V201610508554							2100-01-01				~		0				
	SV201701001421	otter	10.8.1.50			America/Lo	·	2100-01-01	21.3.0.39		LiveWire	~		2			~	~
	SV201604001250	livewire-250-ne				America/Lo	is		21.1.0.30		LiveWire	~		5			~	~
	5V201508008429	livewire-429				America/Lo	sA.	2100-01-01	12.4.0.25			~		1		Ø Pending	~	
	LR201412007447							2100-01-01				~		1				

Settings	Time	Settings	Authentication		
Device Name		Location			
livewire-747-CGTEST		Location			
*Note: A unique device name allows for easy iden	ntification of data sources				
IP Assignment		DHCP Timeout			
DHCP		45			

DMS Functions



The Upgrade button is enabled when one or more of the devices are selected. The Upgrade Button allows the user to upgrade the selected devices remotely through the DMS. The DMS upgrade is the latest shipping version. There is no capability to downgrade to a previously released version.

UPGRADE SETTINGS	vewire-747-CGTES	Т			~
Oisable O Enable					
Date and Time		^		^	
11/09/2021		02];[32	PM
		\vee		\sim	
			Canc	el	Apply



The Actions button allows the user to perform the following actions against the currently selected devices: Power Off, Reboot, Factory Reset.

ACTIONS SV201712501747	3
Actions	
Note: Once LiveWire is powered off, you nee button to power it back.	d to manually press the
O None Off Reboot F	actory Reset
	Cancel Apply



The Share Button allows the user to share the devices with others who manage and configure them. Hitting the Share button will bring up a popup modal dialog with a list of shared users, and a field to add new users.

MANAGE USERS	SV201712501747	×
Add User		
First Name		
First Name		
Last Name		
Last Name		
Email		
Email		

Temp	olate 👻	Configure	Actions	5	Upgrade
Q, Se	earch	0	DEVICE N	AME 🗘	IP ADD
upgrade		Jenai	Device	e Na	IP A
~	SV20171	2501747	livewire-	747-C	10.8.1
	SV20170	4500001	liveactio	n	10.8.1



The Templates button allows the user to apply pre-defined configurations to the selected devices.

What do ThreatEye & LiveWire do?

ThreatEye

<u>ThreatEye</u> NV's probe extracts a rich metadata set of more than 150 packet dynamic features to support threat and anomaly detection, response, hunting, forensics, and compliance validation reporting. ThreatEye NV's software components scale to ingest network data directly from physical or virtual network taps at wire-speeds up to 40Gbps. All ThreatEye products include a DMS console.

Minimum Requirements: ThreatEye NV hardware recommendations are based on standard internet traffic composition per bandwidth. Therefore, the network traffic mix may affect performance.

BANDWIDTH	SPECIFIC	CATIONS
1 Gbps	4x Processor Cores CentOS 7 or other Docker compatible Linux OS 16GB memory	4GB storage 2x 1G network interfaces (One for management, one for monitoring)
10-20 Gbps	48x Processor Cores CentOS 7 or other Docker compatible Linux OS 64GB memory	128GB storage Recommended Intel X710 2x10G (SFP+) network interface card and 1x1G for management
40 Gbps	48x Processor Cores CentOS 7 or other Docker compatible Linux OS 96GB memory	128GB storage Napatech SmartNIC 4x10G (SFP+) network interface card, and 1x1G for management

What do ThreatEye & LiveWire do?

LiveWire

<u>LiveWire</u> enables packet capture from virtually anywhere in the network extending network tracking to remote sites, branches, Cloud, WAN edge, LAN, and data centers.

LiveWire can be deployed as a hardware device or as a virtual product. LiveWire appliances are connected to the network with span ports or network packet brokers that capture north-south traffic. LiveWire Virtual captures north-south and east-west traffic. All LiveWire products include a DMS console.

Our diagram below includes the specifications for LiveWire products:

FEATURES	LIVEWIRE EDGE	LIVEWIRE CORE	LIVEWIRE POWERCORE*	LIVEWIRE VIRTUAL
Use Case	Small Office / Remote Office	Large Branch / WAN Edge	Data Center	All
LiveFlow Export	Up to 400 Mbps	Up 50 6 Gbps	Up to 17 Gbps	Depends on Hardware
Forensic Capture (CTD)	Up to 850 Mbps	Up to 4 Gbps	Up 40 Gbps**	Depends on hardware
Memory	16 GB	32 GB	192 GB	Minimum 8 GB
Storage Capacity	1 TB SSD	16 TB	64 TB or 128 TB	User Configurable
Dimensions/Weight	7 x 1.7 x 5.7 in, 2.64 lbs	1 U, 39 lbs	2 U, 73 lbs	N/A
Omnipeek for Windows	Yes, 1 license	Yes, 1 license	Yes, 1 license	No
VoIP, Video and UC Analysis	Yes	Yes	Yes	Yes

* Supports 10Gbps and 100Gbps ; ** Using 2 external storage systems



LiveAction®

© Copyright 2022 - LiveAction. All Rights Reserved. 960 San Antonio Rd, Suite 200, Palo Alto, CA 94303 +1 (888) 881-1116

About LiveAction

LiveAction provides a DMS software platform for easy scalability, management and visibility into network probes. Questions about DMS-supported products and how DMS can improve your network management? <u>Reach out to us</u>.