LiveWire 25.2.0 New Features

QUICK GUIDE



Added Windows Remote Capture Engine as a product

Added the Windows Remote Capture Engine as a product and created management views in LiveWire to manage captures across a group of engines.

Terminology

A group engine is one for which an authentication group is used for the connection:

INSERT ENGINE ×					
GROUP					
NAME					
Optional 'nickname'					
HOST					
IP address or hostname					
O Connect with an authentication group					
You will not have to enter credentials every time yo The engine must be using the same group secret.	ou connect.				
Test Connection					
 Connect with saved credentials Connect by entering credentials each time 					
	Cancel	ОК			

Omnipeek Windows

For a LiveWire that has support for the Authentication Group Secret (v24.3.0+), a new tab will be added to the Capture Engine Configuration Wizard. This new tab is called "Security: Configure group settings".

Capt	ure Engine Configuratio	on Wizard				\times
Sec	urity					
C	onfigure group settings					
_						
G	roup					
	Authentication Group Se	ecret:				
	•••••		••		Generate	
		< Back	Next >	Cancel	Help	
		Duck	, ione y	curreer	Theip	

Clicking the "Generate" button will generate a random 32 character group authentication secret.

The Authentication Group Secret must be either empty or between 32 characters and 64 characters in length.

LiveWire Omnipeek

Engine Configuration View

The Authentication Group Secret can be modified in the "Security" section of the Engine Configuration View:

≡ 👌 LiveWire			\$	2, admin
Engines / 1 / Home				
Home Captures Forensics Files Foren	isic Searches Events Adapters Settings Admin			
NAME livepca-vir HOST NAME livepca-vir ADRESS 10.8.100.3 USER admin ENGINE TYPE LiveWire V VERSION 25.2.1 (bu ENGINE LOCAL TIME 7/02/023 TIME ZONE GMT-07.0 UPTIME 2:06:40 OPERATING SYSTEM Ubuntu 22 MEMORY 15,988 ME CPU TYPE Intel(R) Xe CPU COUNT 8 DATA FOLDER /var/ib/or CAPTURE STORAGE	utal-lauren10 tual-lauren10 i6 irtual id 25.2.1.1) j 10:16:33) 0.4.5 LTS i Total Phys; 8,848 MB Avail Phys on(R) Gold 6126 CPU @ 2.60GHz nni/data/ 84 GB Total; 7 GB Avail		Configure Engine Configure System Update License	
4 CAPTURE	S CAPTURE SESSIONS		97 FILES	
1 FORENSIC SEA	RCHES BY EVENTS		2 ADAPTERS	
Engines / 1 / Configure Engine Home Captures Forensics Files Foren CONFIGURE ENG	nsic Searches Events Adapters Settings Admin			
General				
NAME	Engine1 Any address	~		
PORT	Choose the IP address used with Omnipeek 6367			
MAX CONNECTIONS	100 D Enable auto discovery			
DATA FOLDER	Automatically restart captures /var/lib/omni/data	Browse		
DATA FOLDER	Automatically restart captures /var/lib/omni/data 200000	Browse		
DATA FOLDER LOG MAX LOG ADJUST	Automatically restart captures /var/lib/omni/data 200000 100000	Browse		
DATA FOLDER LOG MAX LOG ADJUST Security	Automatically restart captures /var/lib/omni/data 200000 100000	Browse		
DATA FOLDER LOG MAX LOG ADJUST Security	Automatically restart captures /var/lib/omni/data 200000 100000 Enable OS authentication only Enable third-party authentication	Browse		
DATA FOLDER LOG MAX LOG ADJUST Security	Automatically restart captures /var/lib/omni/data 200000 0 Enable OS authentication only Enable third-party authentication Enable two-factor authentication	Browse		
DATA FOLDER LOG MAX LOG ADJUST Security AUTHENTICATION GROUP SECRET	Automatically restart captures /var/lib/omni/data 200000 100000 Enable OS authentication only Enable third-party authentication Enable third-party authentication Enable two-factor authentication Enable two-factor authentication	Browse		

Clicking the "Generate" button will generate a random 32 character group authentication secret.

The Authentication Group Secret must be either empty or between 32 characters and 64 characters in length.

Engines View

The user may add engines to the Engines List using the Engines View.

×	ё LiveWire		
A 5	ingines $ ightarrow$	^	rensic Searches
Searc	ch engines lick Engine ★		•virutal-lauren10 •virtual-lauren10 0.36
• 1 2			e Virtual build 25.2.1.1) 025 10:25:34 ':00
3			22.04.5 LTS MB Total Phys; 8,8! Xeon(R) Gold 612€
5	iemo 💿		/omni/data/ 84 GB
li n	vepca-virutal-lauren10 🔵 on-group		JRES
88 V	Vorkflows	~	EARCHES

=	ి LiveWire										ක	g	admin
Engine	2												
Engine	s Overview Captures Forensic Searches Events												
Engi	nes (8)	+ Insert	/ Edit	🖹 Delete	Synchronize	Expand All	Collapse All	Search		×	±	±	c
	IAME 🔺		1			HOST			VERSION	LAST	CONTACT		
	A Boston Engine			10.8.100.36 2				25.2.1.1	 less than a minute ago 			go	
	A Chicago Engine			10.8.100.36 25.2			25.2.1.1	2.1.1 eless than a minute ago			go		
	A Demo		10.8.100.36 25.2.1				25.2.1.1	25.2.1.1 • 2 minutes ago					
	A livepca-virutal-lauren10		10.8.100.36 25.2.1.1				.1 elss than a minute ago			go			
	A Nashville Engine		10.8.100.36 25.2.1.1				1.1 less than a minute ago						
	New York Engine		10.8.100.36 25.2.1.1 •				less than a minute ago			go			
	A non-group					10.8.100.3	16						
	A Oakland Engine					10.8.100.3	16		25.2.1.1	le:	ss than a	minute a	go

Beginning with LiveWire 25.2.0, the engines will be displayed in the Engines View according to the following rules:

- Non-group engines created by the user will be visible to only that user.
- Group engines will be visible to all users assuming the user has the ACL permission to Configure Group Engines

Clicking on the "Insert" button will popup a dialog allowing the user to insert a new engine.

GRO	UP
NAN	IE
Optio	nal 'nickname'
HOS	т
IP ad CON	dress or hostname INECTION Connect with an authentication group Connect with saved credentials
0 0	connect by entering credentials each time
	You will have to enter a username, password and two-factor code (if

For a LiveWire that has support for the Authentication Group Secret (v24.3.0+), the user will have the option in the "Connection" section for "Connect with an authentication group". If the LiveWire does not have this support, this option will be hidden and the user will have to select one of the other 2 options. If the user selects the "Connect with an authentication group" section, this newly inserted engine will be a group engine.

If the host engine has support for the Authentication Group Secret (v24.3.0+) and the Authentication Group Secret is not empty, then the default Connection for new engines will be "Connect with an authentication group".

Also, the user will now be restricted to either enter no Name or a unique Name.

INS	ERT ENGINE
GRC	UP
NA	ΛΕ
Optio	nal 'nickname'
HOS	т
IP ac	dress or hostname
CON	INECTION
0	Connect with an authentication group
	You will not have to enter credentials every time you connect. The engine must be using the same group secret.
	Test Connection
0	Connect with saved credentials
\bigcirc (Connect by entering credentials each time
	Concel
	Cancel UK

For a LiveWire that has support for group engines (v25.2.0+), the "Test Connection" button will be displayed in the "Connection" section when the Connection is "Connect with an authentication group".

Clicking the "Test Connection" button will cause the engine to try and communicate with the LiveWire at the specified host using the Authentication Group Secret. A success or failure message will be displayed to let the user know the test result.

Connection S	uccessful			×
GROUP				
NAME				
Optional 'nickname	1			
HOST				
10.8.100.141				
IP address or hostr	name			
CONNECTION Connect with	h an authentication	group		
You will no The engin	ot have to enter cre e must be using the	dentials every time e same group secr	e you connect. ret.	
	١	Test Connection		
Connect with	n saved credentials entering credentials	s each time		

INSERT ENG	INE			×
Connection F	ailed			\times
GROUP				
NAME				
Optional 'nickname	2'			
HOST				
10.8.100.142	name			
CONNECTION Connect with You will no The engin	h an authentication gro ot have to enter creder e must be using the sa	oup ntials every time you nme group secret.	u connect.	
	Test	Connection		
 Connect with Connect by e 	h saved credentials entering credentials ea	ich time		
			Cancel	ОК

For a LiveWire that has support for group engines (v25.2.0+), inserting a group engine in the Engines List for this LiveWire will also automatically add a group engine for this LiveWire in the group engine's Engines List, assuming the group engine also has support for group engines (v25.2.0+). This automatic insert will occur on the group engine when the first group engine heartbeat is sent (see below).

LiveWire (Group Engine Heartbeat)

For a LiveWire that has support for group engines (v25.2.0+), a hearbeat message will be sent between all group engines at a specified interval.

Every time a heartbeat is sent, information about the group engines will be exchanged. This will effectively update the "Last Contact" time and "Version" for both the group engine on this LiveWire and this LiveWire on the group engine.

- **Note** The group engine must also have support for group engines (v25.2.0+) for this LiveWire to get a response.
- Note For a group engine pair, the group engine heartbeat will only be sent from 1 LiveWire. In other words, both engines do not send a group engine heartbeat. Only 1 side will send a heartbeat so as to reduce duplicate communication. If the user added the group engine through this LiveWire's Engines View, then the first group engine heartbeat will come from this LiveWire, but all other group engine heartbeats will come from the group engine that was inserted. If the user added the group engine through the Omnipeek Windows installer, then that Omnipeek Windows engine will send all group engine heartbeats.

The status of group engine heartbeats can be seen in /var/log/omnitrace.log (additional logging can be seen by changing the log level to MEDIUM):



When the user deletes a group engine from either side, the corresponding group engine on the other side will be deleted during the next heartbeat.

Added new LiveFlow alerts for issues around TLS, Certificates, and Authentication

Several LiveFlow security alerts have been added that are primarily focused around TLS, Certificates, and Authentication. Here's the list of the new alerts:

	LiveFlow Alert	Notes
1	Cleartext Credentials	Description: Detection of user credentials (usernames, passwords, API tokens) transmitted in plain text, which is a major security risk.
	Delected	Cause: Allowed ciphers policy is not in place or not enforced.
		Remedy: Implement and enforce allowed ciphers policy.
2	Kerberos Detected	Description: The Kerberos protocol has been detected. If all machines are running an up-to-date version of Kerberos, this may not be an issue unless Kerberos is disallowed by policy.
		Cause: Kerberos protocol detected in network traffic.
		Remedy: If Kerberos is disallowed by policy, update affected machines. Otherwise, verify all machines are running an up-to-date version of Kerberos.
3	Kerberos RC4 Detected	Description: The Kerberos protocol has been detected, and the ticket key is encrypted using insecure RC4 cipher.
		Cause: Kerberos officially deprecated RC4 long ago. Affected machines are overdue for a Kerberos update.
		Remedy: If Kerberos is disallowed by policy, update all affected machines. Otherwise, update all affected machines to a new version of Kerberos, and disallow RC4.
4	Malicious IP or Domain Detected	Description: Detection of encrypted traffic to known blacklisted or suspicious IPs/domains.
		Cause: Newly detected or unblocked known malicious IP/domain.
		Remedy: Block known malicious IPs/domains.
		Note: If enabled, the security configuration should be modified as specified in KB #000001409.
5	Microsoft IP Detected	Description: Network traffic to Microsoft domains normally used only by computers running Windows has been detected. For example, "phone home" to telemetry.microsoft.com.
		Cause: Passive scanning has detected traffic possibly indicating computers running Windows on the network.
6	NTLM Protocol Detected	Description: Network traffic utilizing NTLM may be a security risk due to known vulnerabilities in NTLM. Microsoft has announced NTLM will be phased out after Windows 11 version 24H2.
		Cause: Passive scanning has detected traffic utilizing the NTLM protocol.
		Remedy: Microsoft recommends replacing NTLM with the latest Kerberos.
7	TLS Certificate Anomalies Detected	Description: Untrusted or self-signed certificates, expired, or mismatched certificates suggest potential MITM attacks or misconfigurations.
	Delected	Cause: Newly detected or unblocked known issues in Server Certificate.
		Remedy: Block identified Server Certificate anomalies.
		Note: If enabled, the security configuration should be modified as specified in KB #000001409.

	LiveFlow Alert	Notes
8	TLS Client Excessive Handsbakes	Description: A client machine has attempted an unusually high number of TLS connections (client hello messages).
	handohakoo	Cause: Possibly comprised machine is attempting to infect other machines.
		Remedy: The client machine should be thoroughly examined for malware, and any infection mitigated.
9	TLS Long Lived Connection	Description: Long-lived sessions, especially to external destinations, may be indicative of compromised hosts or ongoing data exfiltration.
		Cause: Possibly compromised machine has a long duration TLS connection to another machine.
		Remedy: The client and server machines should be thoroughly examined for malware, and any infection removed.
10	Weak TLS Cipher	Description: Detection of TLS encrypted traffic using known weak cipher suites.
	Suite	Cause: Minimum TLS cipher strength not monitored and enforced.
		Remedy: Analyze SSL/TLS handshakes for the negotiated cipher suites. Identify connections that use outdated or weak ciphers. Use network security tools to enforce minimum cipher standards and monitor for any deviations, especially in encrypted traffic between internal systems and external hosts.

Added an alert when a Napatech card experiences an issue and/or change in state

Multiple alerts have been added that are displayed in the *Events* view whenever a Napatech card encounters an error or has a hardware failure. Here are the new alerts that have been added:

- Failure detected regarding Napatech card: number of adapters present has changed
- Failure detected regarding Napatech card: one of the connected adapters has failed
- Failure detected regarding Napatech card: an adapter sensor has reported an alarm. Packet capture may be degraded or stopped
- Failure detected regarding Napatech card: a port sensor has reported an alarm. Packet capture may be degraded or stopped
- The adapter monitoring thread is stopping. It may be that this system doesn't contain a Napatech based capturing card
- Failure detected regarding a Napatech card: a port is showing that it is in the down state
- Napatech capture card is reporting that a port is now in the up state

	👌 🗟 LiveWire	
Eng	nes / Capture Engine /	Events
ଜ H	ome Captures Forensi	cs Files Forensic Searches Events Adapters Settings Admin
Ev	ents (274)	1 79 1 0 1 3 2 192
	DATE/TIME	EVENT
⊗	6/16/2025 04:01:37	Failure detected regarding Napatech card: one of the connected adapters has failed.
8	6/16/2025 04:11:37	Failure detected regarding Napatech card: one of the connected adapters has failed.
⊗	6/16/2025 04:21:37	Failure detected regarding Napatech card: one of the connected adapters has failed.
8	6/16/2025 04:31:38	Failure detected regarding Napatech card: one of the connected adapters has failed.
8	6/16/2025 04:41:38	Failure detected regarding Napatech card: one of the connected adapters has failed.
⊗	6/16/2025 04:51:38	Failure detected regarding Napatech card: one of the connected adapters has failed.
	6/16/000E 0E:01:00	Eailura dataatad ragarding Nanataah aard: ana af tha connacted adapters has failed

Added JBOD status information to Grid reporting

JBOD status information is now available in Grid reporting.

Configur	e Status Man	agement …	1 – 22 of 22	2 «			>					
DEVICE SE	RIAL 🗘 DEVI	ICE NAME	HOST NAME	🗘 DEV	ICE STATE		JBOD STATE		IP ADDRESS		IPV6 ADDRESS	
Device				A		~	Online	~				
BNFGBM	2 Nicl	k Engine	nick-141						10.8.100.141			
9YVFG24	Сар	oture Engine	G3-PowerCore-R6	-65 • [10.8.100.65			
	vices Templates								∂ ☆ √	L Suppor	t (LiveAction) 🗸	
	24)											
조 Apply Template 같 Create Template		Configure Capte	ure Engine (9YVFG24)						Date and Time: Backup Interval: Retention Limit: Encryption:	- - 0 backups Not Configure	ıd	
 Status Management 		Device Name * Capture Engine IPv4 settings		Host Name * G3-PowerCore-I	86-65				IDRAC Settings HostName: Domain Name:	idrac-9YVFG2 -	4	
A A 4		IP Assignment		Address *					DNS Servers:	10.4.155.19 0.0.0.0		
		Static		10.8.100.65					Time Zone:	CST6CDT		
		Netmask *		Gateway *					TLS Version: SNMP:	TLS 1.2 Only Disabled		
2' User Access		255.255.255.0		10.8.100.1					Target Address:			
		DNS Server	Catal DNO comme						NTP:	Disabled		
옮 SNMP		10.4.56.19 🗶 0.6.6.6	Enter DNS server						HTF Gerrei.			
品 IDRAC Settings		IB doubles							JBOD Details: Serial Numl	er 35SBH04		
		IP vo settings							Chassis Status: Chassis Model:	 Online MD-2412 		
③ Backup Settings		Disabled							Storage Controller:	PERC H840 A	dapter	
📾 Restore Backup									Physical Disk 0:0:11	Online Online		
Revisions		Time Settings							Physical Disk 0:0:9	Online		
- Application Config		Time Zone *							Physical Disk 0:0:10	• Online		
		Amenca/Los_Angeles							Physical Disk 0:0:5	Online Online		
0.0		NTP Server							Physical Disk 0:0:7 Physical Disk 0:0:6	Online		
O Upgrade Settings		0.ubuntu.pool.mp.org ×	1.ubuntu pool ntp.org X 2.ubuntu	poolintpiorg 🗙 3.ubi	ntu pool ntp.org 🗙	ntp.ubuntu.com 🗙			Physical Disk 0:0:1	• Online		
合 Change Password									Physical Disk 0:0:4	Online		
() Power Actions							_		Physical Disk 0:0:3	Online Online		
G Activation and Reset						Revert App	bly		Physical Disk 0:0:2	Online		

Added Floating License support for both Perpetual and Subscription licenses

Floating license support has been to the Omnipeek UI for Remote Capture Engine and Omnipeek itself, allowing for centralized management of LiveWire licensing.

Enter the address of your on-prem license server:

Product Activation	×
Activation Location Choose the license installation location	
Please choose to install a standalone local license or use a floating license from a License Server. For more information, go to <u>Frequently Asked Questions</u> .	
 Standalone: installs license locally Floating: installs from a License Server 	
Please enter a valid License Server address: Address:	
license.test.com	
Note: Any currently installed 'floating license' will be uninstalled after clicking 'Next'.	
< Back Next > Cancel	

LiveWire automatically checks out a license from this server when the application starts, and relinquishes control of this license when the application closes.

As seen below, LiveWire is now in "Floating" mode:

Support Information		×
Application information: Omnipeek Product version: 25.2 File version: 25.2.0.21 Valid license: Yes License location: Floating License server: license.test.com Installed languages: 1033 ProtoSpecs library version: 1.8.56.0 ProtoSpecs XML version: 2.4.72 Native ProtoSpecs: enabled DecodeLib version: 3.10.11.1 Decodes.bin file hash: BFFD333FEA880810 Analysis Modules:	1234C9B39F81E0B3C	
<u> </u>	Copy Save Clos	e

Utilities for managing this license server can be found on MyPeek, under the "Free Utlities" section.

The license server address can be synced via Grid, or through LiveWire's native Engine Configuration Sync.

Note LiveWire appliances must remain in constant contact with the License Server, otherwise they risk losing their activation state.

Added additional Prometheus metrics to our existing reporting and support data collection

Promethus metrics for stream packet counts are displayed in admin/support when the capture is active (instead of written to omnitrace). In addition, the packet count stats for the same analysis streams are outputted to prometheus.

· Te Outline	🕒 lw-vm-11		🔲 Split	Add ~	🕐 Last 30 minutes 👻 🔾	🕄 Run query 👻
C> Queries		Metric Laber Inters livewire_capture_stream_states Select label = Select value X +				
Graph		Itvestire_copture_stream_stats Fetch all series matching metric name and label filters.				
		Ceptons Legend ₀ Min step ₀ Fermat Type Exemptars Auto v auto Time series ∞ Range Instant Beth C				
		Add query O Query inspector				
		ph				
		×=====================================				
	31					
	21					
		0 154500 154600 154700 154800 154700 155000 155000 155100 155200 155300 155400 155500 155700 155800 155800 155800 18000 180100 180200 180100 180200 180400 180500 180500	16:07:00 16:	08:00 16:0	19:00 16:10:00 16:11:00 16:12:0	00 16:13:00 16:14:00
	-	Lama"Newlin_capture_stream_stats", capture="Formatics Capture", instance="Nocahood.5372", job="Newlin", result=stream 21" =	result="stream result="stream , result="stream , result="stream			
	Ra					
	Ex	and results 🕘 🗋				
	e	ivewire_capture_stream_stats{capture = "Forensics_Capture", instance = "tocalhost:6372", job="livewire", result = "stream O"}				105674
	¢	<pre>ivewire_capture_stream_stats{capture="Forensics_Capture", instance="localhost:8372", ob="livewire", result="stream 1"}</pre>				104299
	C	<pre>wwwire_capture_stream_stats(capture="Forensics_Capture", instance="localhost:6372", job="livewire", result="stream 2"}</pre>				88945
	C	wwwie_capture_stream_stats(capture="Forensics_Capture", instance="localhost:6372", job="livewire", result="stream 3"}				67682

Added Packet Summary to Flow Visualizer

The Packet Summary column was added to the Flow Visualizer (*Forensic Search > Expert Flows >* [Select Flow] *> Flow Visualizer*). This helps to provide more context for what the payload of the packets look like.

Packe	ets (3,076)					← → 8	Go Sel	ect 🛓	c
Ψ.	Enter a filter expression								Apply
1 pack	ets selected					Previous Selected	Next Selected Open Se	lected Packets	Close
F	ACKET SOURCE	DESTINATION	FLOW ID	SIZE	RELATIVE TIME PROTOCOL	APPLICATION	SUMMARY	EXPERT	
	8 10.4.203.110	10.4.58.20	5	76	6.856274 DNS	DNS	C QUERY NAME=pool.nt		1
	9 10.4.203.110	10.4.58.20	5	76	6.856275 DNS	DNS	C QUERY NAME=pool.nt		
	10 10.4.203.51	10.4.155.19	6	106	7.147869 DNS	DNS	C QUERY NAME=cm-ver		
	11 10.4.203.51	10.4.155.19	6	106	7.147869 DNS	DNS	C QUERY NAME=cm-ver		
	40 40 4455 40	10 1 000 51		055	7.4.4004.0.0010	0110	B OUEDVOTATIO OVAL		

Added "Stop Selection" to Forensic Search and packet search to show current results

A *Stop Selection* button has been added to Forensic Search. When clicked, the selection of packets is stopped and the current results are displayed.

Home Captures F	orensics Files Forensic Searches	Events Adapters Settings A	dmin								
🖀 Home	Packets (16,485,934)						€ → 4	Go Select	±	α ·	
Dashboard Network	T - app(TCP)									Appl	ly
Applications	Selecting packets								Stop	Cancel	
Capture										-	
Events	PACKET SOURCE	DESTINATION	FLOW ID	SIZE	RELATIVE TIME PROTOCOL	APPLICATION	SUMMARY	EXPERT			
Expert	1 10.4.254.20	10.8.100.118	1	950	0.000000 HTTPS	TCP					4
Clients/Servers	2 10.8.100.118	10.4.254.20	1	64	0.000035 HTTPS	TCP					
Flows	3 10.4.254.20	10.8.100.118	2	949	0.000587 HTTPS	TCP					
K LD Elements	Console Sources Network	Performance Memory Ap	oplication Privacy and s	ecurity I	Lighthouse Recorder				8 43	3 🛞 3	: >
	Preserve log Disable cache	No throttling 👻 🙃 主	₹								Ę
▼ Filter				Inve	rt More filters 🔻 All Fetch/	XHR Doc CSS JS	Font Img Media M	anifest Socket Wasm Other			
500 ms	1,000 ms	1,500 ms 2,000 ms	2,500 ms		3,000 ms 3,500 ms	4,000 ms	4,500 ms	5,000 ms 5	.500 ms		6,000
Name			× Headers Previe	w Respon	se Initiator Timing						
(i) status/			▼ General								
(i) filter-convert/			Request URL		https://10.8.100.118/api/v1/se	elect-related-filter/stop/	18/				
() 09174433-2223-2F4E	-899A-B66E5837B3E7/		Request Method		GET						
0) 8/			Status Code		404 Not Found						
8/			Remote Address		10.8.100.118:443						
V/ 8/	-0004-066550270257/		Referrer Policy		strict-origin-when-cross-origi	n					

Updated HTTP Host Resolution to not send IP Address

LiveFlow no longer sends IP addresses in HTTP Host Name and SSL Common Name.

Added decoder support for TURN message format

Decoder support for TURN message format has been added to LiveWire. The TURN header and its payload will now be decoded.

🔳 👌 LiveWire	e													¢	8	admin
Engines / 1100-LA / Forer	isic Searches / AWS Connect 3 - Selection	on / Packets														
Home Captures Forens	ics Files Forensic Searches Events	Adapters Settings Admin														
# Home	Packets (8,385)								*	>	9	Go S	elect	*	ø	
Dashboard Network	T - Enter a filter expression														/ A	pply
Applications Voice & Video	PACKET SOURCE	DESTINATION	FLOW ID	SIZE	RELATIVE TIME PROTOCOL	APPI	LICATION	SUMMARY			EXPERT					
Compass	1 192.168.1.162	turnnib-ea5316ebe2759cb	1	140	0.000000 RTP Dynamic	UDP		SSRC=0xFCE4BF47, Seq=90, Time=216316555	1		RTP Not Marked for	r QoS				
Capture	2 192.168.1.162	turnnib-ea5316ebe2759cb	1	137	0.020187 RTP Dynamic	UDF		SSRC=0xFCE4C307, Seq=87, Time=215477694	14							
Packets	3 192.168.1.162	turnnlb-ea5316ebe2759cb	1	143	0.040569 RTP Dynamic	UDP		SSRC=0xFCE4C6C7, Seq=93, Time=215477694	15							
Events	4 192.168.1.162	turnnib-ea5316ebe2759cb	1	136	0.060366 RTP Dynamic	UDF		SSRC=0xFCE4CA87, Seq=86, Time=215477694	16							
Expert	5 192.168.1.162	turnnlb-ea5316ebe2759cb	1	138	0.080972 RTP Dynamic	UDP		SSRC=0xFCE4CE47, Seq=88, Time=215477694	17							
Clients/Servers	6 192.168.1.162	turnnib-ea5316ebe2759cb	1	135	0.100632 RTP Dynamic	UDF		SSRC=0xFCE4D207, Seq=85, Time=215477694	18							
Applications	7 192.168.1.162	turnnlb-ea5316ebe2759cb	1	141	0.120694 RTP Dynamic	UDP		SSRC=0xFCE4D5C7, Seq=91, Time=215477694	19							
Event Summary	8 192.168.1.162	turnnlb-ea5316ebe2759cb	1	144	0.141639 RTP Dynamic	UDP		SSRC=0xFCE4D987, Seq=94, Time=215477695	60							
Event Log	9 192.168.1.162	turnnib-ea5316ebe2759cb	1	141	0.159939 RTP Dynamic	UDP		SSRC=0xFCE4DD47, Seq=91, Time=21547769	51							
Web	10 192.168.1.162	turnnlb-ea5316ebe2759cb	1	137	0.180871 RTP Dynamic	UDP		SSRC=0xFCE4E107, Seq=87, Time=215477695	2							
Servers	11 192.168.1.162	turnnib-ea5316ebe2759cb	1	136	0.200581 RTP Dynamic	UDF		SSRC=0xFCE4E4C7, Seq=86, Time=215477695	i3							
Clients	12 192.168.1.162	turnnib-ea5316ebe2759cb	1	145	0.219861 RTP Dynamic	UDP		SSRC=0xFCE4E887, Seq=95, Time=215477695	4							
Requests	13 192.168.1.162	turnnlb-ea5316ebe2759cb	1	138	0.240482 RTP Dynamic	UDF		SSRC=0xFCE4EC47, Seq=88, Time=215477695	5							
Voice & Video Calis Media Peer Map Graphs Reconstructions Summary Normary Applications Countries MPLS/VLAN/VXLAN	Source Port: Destination Port: Length: UDP Checksum: VIII UNN Chennellart Chennel Number: Message Length: Version: Persion: Persion: Payload Type: Sequence: Time Stamp: Sync Src ID: RTP Payload: VEC: Frame.Check.Seque	37388 [14-33] 3778 sfum 143 [16-37] 183 [16-30] 0x3C19 [46-41] 0x3C19 [46-41] 0x4008 [42-43] 91 [44-61] 2/07C [1089] 0 [46 Mask bc0] 0 [47 Mask bc0] 0 [46 Mask bc0] 0 [47 Mask bc0] 0 [48 Mask bc1] 0 [47 Mask bc1] 0 [48 Mask bc1] 0 [46 Mask bc2] 0 [42 Mask bc1] 0 [42 Mask bc1] 0 [42 Mask bc1] 0 [42 Mask bc1] 0 [43 Mask bc1] 0 [44 Mask bc1] 0 [45 Mask bc1] 0 [45 Mask bc1]	7]			~	0 16 32 48 64 80 96 112 128	14 16 16 24 46 18 46 71 41 41 16 57 6 10 88 44 51 2 17 15 16 40 00 16 19 11 12 45 16 17 41 12 42 12 17 15 16 17 16 10 10 19 11 12 45 16 17 41 12 2 17 15 16 17 16 17 41 98 19 11 12 45 16 17 11 17 11 18 17 17 15 16 10 99 47 17 16 17 12 18 61 18 47 18 13 55 19 18 18 19 14 10 18 20 17 16 18 13 47 18 10 16 18 15 49 17 16 15 16 19 06 17 15 16 19 17 16 15 15 49 17 16 15 17 16 17 2 50 7 16 18 38 47 18 0 16 18 18 40 16 7 18 45 16 16 16 17 16 17 16 17 16 17 16 17 16 17 16 17 19 67 18 45 18 16 33 22 78 78 18 88 88 40 67 19 67 13 4 45 18 16 33 22 78 78 88 88 40 67 19 67 13 4 45 18 16 33 22 78 78 88 88 40 67 10 51 17 16 16 18 16 16 16 16 16 16 16 16 16 16 16 16 17	00 9E 6F 65 Iw 1F .X 11 EE }. Ig							2

Added Details Statistics view to LiveWire

The Details Statistics view has been added to LiveWire.

The rest of this description will describe where and how the Details Statistics View can be opened, and how the Details Statistics View behaves.

How to enable the Details Statistics View

The Details Statistics View is available in any Capture or Forensic Search, but must be enabled by the user.

This Details Statistics feature will be unavailable if:

- the Capture or Forensic Search doesn't have "Node Detail Statistics" analysis enabled
- the LiveWire is version 25.1.x or earlier

Capture

້ຼຸ LiveWire	තු	ဂို ac	lmin
es / 1 / Captures / Monitoring Capture / Capture Options			
ne Captures Forensics Files Forensic Searches Events Adapters Settings Admin			
Ethernet, 10,000 Mbits/s, 00:0C:29:47:E6:C2			4
Triggore (Dischled)			
Tiggers (Disabled)			
Filters (Accept all packets)		^	
And the first of t			
Anaiysis		~	
Analysis modules (21) Configure			
Application statistics			
🗹 Compass 🔯 Configure			
Country statistics			
Error statistics			
Expert analysis			
MPLS/VLAN/VXLAN statistics			
Vetwork statistics			
Vode statistics Configure			
roue detail statistics Grongure Passive name resolution			
Protocol statistics (a Configure)			
Size statistics			
Summary statistics			
Traffic history statistics			
Voice & video analysis & Configure			
Enable All Disable All			
Alarma (0 alarma anablad)			
Graphs (Disabled)		~	
oraphis (pisanied)			

Forensic Search

NAME	ANALYSIS & OUTPUT
http-slashdot 73	🗹 Analysis Modules 🔅 Configure
	Application Statistics
START TIME	Country Statistics
2006-08-16 11:56:51.517	Error Statistics
	Vents
END TIME	Craphe di Configure
2006-08-16 11:57:23.674	MPLS/VLAN/VXLAN Statistics & Configure
	Network Statistics
Presets *	Node Detail Statistics
	✓ Node Statistics
DURATION 32.157	Packets
FILES 1	Passive Name Resolution
Theo	Protocol Statistics & Configure
FILTER	Reconstructions
T - Enter a filter expression	Size Statistics
	Traffic History Statistics
	Voice & Video 🕸 Configure
	Web Analysis
	Wireless Channel Statistics
	Wireless Node Statistics
	Enable All Disable All Presets -
	Cancel Start

How to open the Details Statistics View in LiveWire

Nodes Statistics View

The user may open the Details Statistics View for a node by clicking the "…" button at the end of each row in the Nodes table and clicking the "Node Details" context menu item. This will work in any of the modes ("IP", "IPv6", "Physical", "Hierarchy"). This "Node Details" feature will be disabled if the Capture or Forensic Search doesn't have "Node Detail Statistics" analysis enabled, or the LiveWire is version 25.1.x or earlier.

≡ 🖹 LiveWire	≣ 🔄 LiveWire 🕸 🖇 admin										
Engines / 1 / Forensic Sea	arches / Packet2024-11-0	6T11.34.31.676 2 /	Node Statistics								
Home Captures Forensics Files Forensic Searches Events Adapters Settings Admin											
🖀 Home	Nodes (113)				IP v	Searc	h	×	*	C	
Dashboard Network	NODE	COUNTRY	TOTAL BYTES % 🔻	TOTAL BYTES	PACKETS SE	ENT PACI	KETS RECEIVED BROADC	AST/MULT	CAST P		
Applications	10.8.100.6	Private Net		554,010,787	384,7	707	52		0		
Voice & Video	10.8.100.106	Private Net		554,000,404		0	384,709		0		
Compass	10.8.100.62	? Private Net		495,077,037	345,6	592	141		0		
Packets	10.8.100.107	Private Net		495,059,477		92	345,687		0		
Events	10.8.100.141	Private Net		1,462,389	1	Node	Details				
Expert	10.4.254.31	Private Net		1,440,521	(Coloct	Polatad Backata by C				
Clients/Servers	10.8.100.64	Private Net		539,298		Select	Related Packets by D	estination			
Flows	dev.wildpackets.com	Private Net		534,336	336 Select Related Packets by So		ource or Destination		on		
Applications Event Summary	10.8.100.89	Private Net		72,060	1	Multi Segment Analyzia					
Event Log	10.4.254.26	Private Net		60,668	:	Multi-	Segment Analysis				
Web	10.8.100.69	? Private Net		50,230		Make	Filter				
Servers	10.8.100.96	? Private Net		33,502	:	Make	Graph				
Clients	10.8.102.65	Private Net		32,022		Make Alarm					
Pages Requests	10.8.100.56	? Private Net		26,580							
Voice & Video	security.ubuntu.com	🔚 United States		26,424		Resolve Names					
Calls	10.8.100.17	Private Net		26,296					~	- 11	
Media	10.4.254.11	Private Net		24,684		76	0		0		
Visuals	SSDP	Multicast		24,268		0	108		0		
Peer Map	10.8.100.80	Private Net		23,945		98	31		96		
Graphs	10.8.102.62	Private Net		23,188		0	60		0		
Statistics	10.8.100.82	Private Net		21,698		0	38		0		
Summary	10.8.100.75	Private Net		21,277		45	20		0		
Nodes	10.8.100.65	Private Net		19,386		0	101		0		
Protocols	10.4.201.29	Private Net		17,971	1	145	0		0		
Applications	10.4.203.53	? Private Net		16,988		85	0		0		
Countries	10.8.100.40	Private Net		16,127		0	81		0		
WIF LO/ VLAIN/ VALAIN	ID Propdepet	Dal Privato Not		1/1 256		n	24		0	Ŧ	

Protocols Statistics View

The user may open the Details Statistics View for a protocol by clicking the "…" button at the end of each row in the Protocols table and clicking the "Protocol Details" context menu item. This will work in any of the modes ("Flat", "Hierarchy"). This "Protocol Details" feature will be disabled if the Capture or Forensic Search doesn't have "Node Detail Statistics" analysis enabled, or the LiveWire is version 25.1.x or earlier.

≡ ё LiveWire	9				ැලි උadmin
Engines / 1 / Forensic Sea	rches / Packet2024-11-06T11.34.31	.676 2 / Protocol Statistics			
Home Captures Forensi	ics Files Forensic Searches Even	ts Adapters Settings Admin			
🖀 Home	Protocols (26)		Flat 🗸	Search	× ± C
Dashboard					
Network	PROTOCOL	BYTES % 💌		BYTES	PACKETS ***
Applications Voice & Video	IPFIX			1,049,040,094	730,393
Compass	HTTPS			1,604,155	Protocol Details
Capture	HTTP			560,760	Select Related Packets
Packets	SNMP			167,401	
Events	DHCPv6			58,393	Multi-Segment Analysis
Expert	802.1			55,616	Make Filter
Clients/Servers	SSDP			24,268	Make Graph
Flows	SSH			18,178	Make Alarm
Event Summary	DHCP			14,256	Incest late Merry Table
Event Log	DNS			13,674	Insert Into Name Table
Web	ARP Request			12,800	200
Servers	Discovery			12,636	27
Clients	PostgreSQL			11,697	53
Pages	Loopback			9,472	148
Neice & Video	ARP Response			6,528	102
Calls	ICMP Dest Unreach			4,724	40
Media	IP Fragment			3,241	3
Visuals	TCP			2,500	24
Peer Map	SMB			2,500	10
Graphs	ICMPv6 NSol			2,430	27
Reconstructions	NTP			2,068	22
Statistics	RDP			1,926	28
Nodes	ICMPv6 RSol			1,916	26
Protocols	syslog			915	5
Applications	SNMP Trap			686	2
Countries	CIFS			420	6
MPLS/VLAN/VXLAN					

Applications Statistics View

The user may open the Details Statistics View for an application by clicking the "…" button at the end of each row in the Applications table and clicking the "Application Details" context menu item. This will work in any of the modes ("Flat", "Hierarchy"). This "Application Details" feature will be disabled if the Capture or Forensic Search doesn't have "Node Detail Statistics" analysis enabled, or the LiveWire is version 25.1.x or earlier.

≡ ἒ LiveWire	≣ È LiveWire											
Engines / 1 / Forensic Sea	rches / Packet2024-11-06T11.34	31.676 2 / Application Statistics										
Home Captures Forens	ics Files Forensic Searches Ev	vents Adapters Settings Admin										
倄 Home	Applications (16)		Flat 🗸	Search	× ± C							
Dashboard Network	APPLICATION	CATEGORY	BYTES % 👻	BYTES	PACKETS							
Applications	IPFIX	Network Management		1,049,019,890	730,378							
Voice & Video	SSL	Encrypted		1,543,893	Application Details							
Compass	тср	Generic		651,709								
Packets	SNMP	Network Management		163,533	Select Related Packets							
Events	DHCPv6	Network Management		58,393	Multi-Segment Analysis							
Expert	SSDP	Network Management		24,268	Make Filter							
Clients/Servers	UDP	Generic		21,036	Make Graph							
Flows	DHCP	Network Management		14,256	Make Alarm							
Applications Event Summary	DNS	Network Management		12,001	87							
Event Log	ICMP	Network Management		4,724	40							
Web	ICMPv6	Network Management		4,346	53							
Servers	Canonical Services	Development Tools and Services		3,202	3							
Clients	NetBIOS	Network Management		2,500	10							
Pages Requests	NTP	Network Management		2,068	22							
Voice & Video	MulticastDNS	Network Management		1,673	15							
Calls	Syslog	Network Management		915	5							
Media												
Visuals Peer Map Graphs Reconstructions												
Statistics Summary Nodes Protocols Applications Countries												
MPLS/VLAN/VXLAN												

Peer Map View

The user may open the Details Statistics View for a node by clicking on it and clicking the "Node Details" button. This "Node Details" feature will be disabled if the Capture or Forensic Search doesn't have "Node Detail Statistics" analysis enabled, or the LiveWire is version 25.1.x or earlier.



The user may also open the Details Statistics View for a conversation by clicking on a conversation line and clicking the "Conversation Details" button. This "Conversation Details" feature will be disabled if the Capture or Forensic Search doesn't have "Node Detail Statistics" analysis enabled, or the LiveWire is version 25.1.x or earlier.



The Details Statistics View

≡ ё LiveWire		ැබු උ admin
Engines / 1 / Forensic Sea	ches / Packet2024-11-06T11.34.31.676 2 / Detail Statistics	
Home Captures Forens	cs Files Forensic Searches Events Adapters Settings Admin	
☆ Home Dashboard	Details For 10.8.100.106	
Network Applications Voice & Video Compass	TOTAL PACKETS 769,418 LARGEST PACKET 1,498 SMALLEST PACKET 198	
Capture Packets	KBITS/S 6,059.311 AVERAGE PACKET SIZE 1,440	DAOVETO
Events	PROTOCOL BITES % BITES %	PACKETS
Expert	V IP	0
Flows	✓ UDP	0
Applications	DNS 416	2
Event Summary	IPFIX 553,999,988	384,707
Web Servers Clients Pages Requests Voice & Video		
Calls Media		
Visuals Peer Map Graphs Reconstructions		
Statistics Summary Nodes Protocols Applications Countries MPLS/VLAN/VXLAN		

The Details Statistics View Features:

- When in the Details Statistics View, the user has the option of picking any node, protocol or application and requesting the details for it as well. Because of this, this view can become nested as the user continues to request details. For this reason, the very top of the view features a breadcrumb path showing all of the Details Statistics Views the user has viewed since launching from the initial request to see details from one of the Statistics views or Peer Map. The most recent Details Statistics View is shown on the far right , and the less recent Details Statistics View is shown on the far left. All breadcrumb items are a clickable link that will take the user back to that Details Statistics View, except for the most recent Details Statistics View on the far right since that's the view the user is currently viewing.
- Directly under the breadcrumbs and to the left is the title of the Details Statistics View. This title will vary depending on whether the user is viewing the details for a node, protocol, application, nodes conversation, node + protocol conversation or node + application conversation.
- Directly under the title of the Details Statistics View is the Statistics Panel which displays statistics about the nodes in the view:
 - "Total Packets": The total number of packets
 - "Total Bytes": The total number of bytes
 - "kbits/s": The utilization
 - "Largest Packet": The largest packet size
 - "Smallest Packet": The smallest packet size

- "Average Packet Size": The average packet size
- Directly under the breadcrumbs and to the right are controls to modify the view:
 - If there are any nodes to display, a "Nodes" button will be displayed. Clicking this "Nodes" button will display a list of nodes below the Statistics Panel.
 - If there are any protocols to display, a "Protocols" button will be displayed. Clicking this "Protocols" button will display a list of protocols below the Statistics Panel.
 - If there are any applications to display, a "Applications" button will be displayed. Clicking this "Applications" button will display a list of applications below the Statistics Panel.
 - When the user is viewing protocols or applications:
 - The user will be able to specify whether to view them in a "Flat" layout or "Hierarchy" layout from a dropdown. This setting will be remembered between Details Statistics Views.
 - The user will be able to click the "Expand All" button to expand all items in the tree view.
 - The user will be able to click the "Collapse All" button to collapse all items in the tree view.
 - A Search bar will allow the user to filter the nodes, protocols or applications displayed. This setting will be remembered between Details Statistics Views.
 - When displaying protocols in "Hierarchy" mode, the filter will only apply to the items without children in the tree view.
 - When displaying applications in "Hierarchy" mode, the filter will only apply to the items without children in the tree view.
 - Any items in the tree view with no children due to the filter will be hidden.
 - An Export button will export the current view as configured and displayed into a CSV file and automatically download it to the host machine. This CSV file will be named one of the following based on which statistics are currently displayed when the export action is executed: "Application Details Statistics", "Node Details Statistics" or "Protocol Details Statistics".
 - A Refresh button will refresh the Details Statistics View.
- For Captures, the Details Statistics View will refresh every 30 seconds.

Nodes

≡ ἒ LiveWire	2							ŝ	ĉ	admin
Engines / 1 / Forensic Sea	rches / Packet2024-11-06T11.34.3	1.676 2 / Detail Statistics								
Home Captures Forens	ics Files Forensic Searches Eve	nts Adapters Settings Ad	Imin							
谷 Home Dashboard	Details For 10.8.100.106	06	Nodes	Protocols	Applications	Search		×	*	a
Network Applications Voice & Video Compass	TOTAL PACKETS 769,418 TOTAL BYTES 1,108,000,808 KBITS/S 6,059.311	LARGEST PACKET 1,499 SMALLEST PACKET 198 AVERAGE PACKET SIZE 1,440	3		, pplication					
Packets	NODE	COUNTRY	BYTES %			BYTES 🔻	PACKE	rs		
Events	10.8.100.106	Private Network	_	-	•	0	0 769.4	Def	ault Colu	umns
Clients/Servers	10.8.100.6	Private Network		→ ←	•	1,107,999,976	769,4	All	Columns	;
Applications Event Summary	10.4.155.19	Private Network			•	832 0	4 0	✓ Noo Nar	le ne intrv	
Event Log Web Servers Clients Pages Requests	I							City Lat Lor V Byt Pac	tude gitude es % :kets %	
Voice & Video Calls Media								 ✓ Byt ✓ Pac Mir 	as kets Size	
Visuals Peer Map Graphs Reconstructions								Ma Avç Firs	. Size . Size .t Time	
Statistics Summary Nodes Protocols Applications Countries MPLS/VLAN/VXLAN								Dur	ation	

The nodes table can display the following values, which the user can toggle by clicking the "..." button on the far right of the table header:

- "Node" (default): If the "Show Address Names" is enabled in the configuration options (gear icon in the top left), the name of the node is shown if there is one. Otherwise, the IP, IPv6 or physical address of the node is displayed. If a color is associated with this node, the text will be displayed in that color.
- "Name": The name of the node is shown if there is one. If a color is associated with this node, the text will be displayed in that color.
- "Country": The country for the node is displayed if it can be calculated.
- "City": The city for the node is displayed if it can be calculated.
- "Latitude": The latitude for the node is displayed if it can be calculated.
- "Longitude": The longitude for the node is displayed if it can be calculated.
- "Bytes %": 2 bars will be displayed along with a direction arrow
 - The percentage of bytes sent in comparison with all nodes in the Details Statistics View is displayed on the top (the left arrow indicates "sent")
 - The percentage of bytes received in comparison with all nodes in the Details Statistics View is displayed on the bottom (the left arrow indicates "sent")
 - Hovering over the bar graph will display the numerical percentage value in a tooltip
 - If a color is associated with this node, the text will be displayed in that color

- Sorting this column will sort based on the sum of both bytes sent and bytes received
- "Packets %":
 - The percentage of packets sent in comparison with all nodes in the Details Statistics View is displayed on the top (the left arrow indicates "sent")
 - The percentage of packets received in comparison with all nodes in the Details Statistics View is displayed on the bottom (the left arrow indicates "sent")
 - Hovering over the bar graph will display the numerical percentage value in a tooltip
 - If a color is associated with this node, the text will be displayed in that color
 - Sorting this column will sort based on the sum of both packets sent and bytes received
- "Bytes" (default):
 - The bytes sent in comparison with all nodes in the Details Statistics View is displayed on the top
 - The bytes received in comparison with all nodes in the Details Statistics View is displayed on the bottom
 - If a color is associated with this node, Omnipeek Windows will display the text in this color, but LiveWire Omnipeek will not
 - Sorting this column will sort based on the sum of both bytes sent and bytes received
- "Packets" (default):
 - The packets sent in comparison with all nodes in the Details Statistics View is displayed on the top
 - The packets received in comparison with all nodes in the Details Statistics View is displayed on the bottom
 - If a color is associated with this node, Omnipeek Windows will display the text in this color, but LiveWire Omnipeek will not
 - Sorting this column will sort based on the sum of both packets sent and bytes received
- "Min. Size":
 - The minimum packet size sent for this node is displayed on the top
 - The minimum packet size received for this node is displayed on the bottom
 - Sorting this column will sort based on the minimum of both minimum packet size sent and minimum packet size received
- "Max. Size":
 - The maximum packet size sent for this node is displayed on the top
 - The maximum packet size received for this node is displayed on the bottom
 - Sorting this column will sort based on the maximum of both maximum packet size sent and maximum packet size received
- "Avg. Size":
 - The average packet size sent for this node is displayed on the top
 - The average packet size received for this node is displayed on the bottom
 - Sorting this column will sort based on the average of both bytes and packets sent and received
- "First Time":
 - The timestamp of the first packet sent for this node is displayed on the top
 - The timestamp of the first packet received sent for this node is displayed on the top
 - Sorting this column will sort based on the minimum of both first packet sent and first packet received
- "Last Time":
 - The timestamp of the last packet sent for this node is displayed on the top
 - The timestamp of the last packet received sent for this node is displayed on the top

- Sorting this column will sort based on the maximum of both last packet sent and last packet received
- "Duration": The duration of time in which the packets for this node were captured

Context Menu Operations:

	BYTES 👻	PACKETS	•••
→	34,710	538	
-	870,836	688	
\rightarrow	744,096	536	
\leftarrow	26,406	A1 A	***
\rightarrow	126 Node Detai	s	
\rightarrow	8,21		
	Select Relat	ted Packets by Source	
	Select Relat	ted Packets by Destination	
	Onlant Dala	, ,	4 : 4 :
	Select Rela	ted Packets by Source of De	estination
	Multi-Segm	ant Analysia	
		ent Analysis	
	Make Alarm		
	Make Alarm	n Analysis	
	Make Alarm Make Filter		
	Make Alarm Make Filter Make Graph	n 1	
	Make Alarm Make Filter Make Graph Insert Into N	n Name Table	

Clicking the "..." button at the end of each row in the table will display the context menu for each node with the following options:

- "Node Details":
 - Clicking this item will open a new Details Statistics View for the node in addition to the current nodes, protocols or applications for the current Details Statistics View
 - This item will be disabled if the node is already a part of the current Details Statistics View
- "Select Related Packets by Source": This item will redirect to the Packets View and select all packets in the Packets View that match the node as source. This item is disabled if the user cannot view packets or there are no packets in this Capture or Forensic Search.
- "Select Related Packets by Destination": This item will redirect to the Packets View and select all packets in the Packets View that match the node as destination. This item is disabled if the user cannot view packets or there are no packets in this Capture or Forensic Search.
- "Select Related Packets by Source or Destination": This item will redirect to the Packets View and select all packets in the Packets View that match the node as source or destination. This item is disabled if the user cannot view packets or there are no packets in this Capture or Forensic Search.
- "Multi-Segment Analysis": This item will redirect to the Multi-Segment Analysis View with the start and end time being the first and last time the node was captured (respectively), and the filter pre-populated with a filter for the node. This item is disabled if the user cannot upload files or create a forensic search.
- "Make Alarm": This item will redirect to the Alarms View with the name of the new alarm being the node, and the units being "Total Bytes Per Second"
- "Make Filter": This item will redirect to the Filters View with an address filter pre-populated with a filter for the node to any other address in both directions
- "Make Graph": This item will redirect to the Graphs View with the name of the new graph being the node, and the units being "Bytes", and the graph table pre-populated with the node and "Total Bytes"

- "Insert Into Name Table": This item will pop up a dialog allowing the user to insert this node into the name table (the name will be pre-populated to the node name, the node type pre-populated to the best match, and the entry pre-populated to the IP, IPv6 or physical name of the node)
- "Resolve Names": This item will attempt to auto-resolve the node and add it to the name table

Protocols

≡ ё LiveWire	9							ŝ	° a	dmin
Engines / 1 / Forensic Sea	rches / Packet2024-11-06T11.34.31.67	6 2 / Detail Statistics								
Home Captures Forens	ics Files Forensic Searches Events	Adapters Settings Admi	in							
Home Dashboard Network Applications Voice & Video Compass	Details For 10.8.100.106 Details For 10.8.100.106 TOTAL PACKETS 769,418 TOTAL BYTES 1,108,000,808 KBITS/S 6,059.311 AVI	Nodes Protocols LARGEST PACKET 1,498 SMALLEST PACKET 198 ERAGE PACKET SIZE 1,440	Applications	Hierarchy 🗸	Expand All	Collapse All	Search	×	4	C
Capture Packets Events	PROTOCOL		BYTES %			BY	TTES 👻	Defa	PACKETS	
Expert Clients/Servers Flows Applications Event Summary Event Log	✓ Energie Type 2 ✓ IP ✓ UDP DNS IPFIX			_		553,9	0 0 416	All C ✓ Proto ✓ Bytes Pack	olumns ocol s % ets %	
Web Servers Clients Pages Requests Voice & Video								 ✓ Byte: ✓ Pack 	ets	-
Calls Media Visuals Peer Map Graphs Reconstructions										
Statistics Summary Nodes Protocols Applications Countries MPLS/VLAN/VXLAN										

The protocols table can display the following values, which the user can toggle by clicking the "..." button on the far right of the table header:

- "Protocol" (default): If the "Show Port Names" is enabled in the configuration options (gear icon in the top left), the name of the protocol is shown if there is one. Otherwise, the protocol is displayed. If a color is associated with this node, the text will be displayed in that color.
- "Bytes %" (default):
 - The percentage of bytes sent and received in comparison with all protocols in the Details Statistics View
 - Hovering over the bar graph will display the numerical percentage value in a tooltip
 - If a color is associated with this protocol, the text will be displayed in that color
- "Packets %":
 - The percentage of packets sent and received in comparison with all protocols in the Details Statistics View
 - Hovering over the bar graph will display the numerical percentage value in a tooltip
 - If a color is associated with this protocol, the text will be displayed in that color
- "Bytes" (default):

- The bytes sent and received in comparison with all protocols in the Details Statistics View is displayed on the top
- "Packets" (default):
 - The packets sent and received in comparison with all protocols in the Details Statistics View is displayed on the top

The Hierarchy Mode:

• When showing protocols in hierarchy mode, if a tree item is expanded then the "Bytes %", "Packets %", "Bytes" and "Packets" values describe packets whose most specific protocol is that protocol. If it is collapsed, the "Bytes %", "Packets %", "Bytes" and "Packets" values include all packets that include that protocol in its protocol hierarchy.

Limit Message:

• If the protocol statistics limit has been reached, the user will see a red error banner above the protocols table detailing the limit that was reached.

≡ 👌 LiveWire	e								ŝ	3 8	admin
Engines / Nick Engine / Fe	orensic Searches / Fort Worth 4 / Detail Statistics										
Home Captures Forens	sics Files Forensic Searches Events Adapters Settings Admin										
# Home Dashboard Network Applications Voice & Video Compass	Details For frd-as2s39.erols.com (207.172.110.102) Details For frd-as2s39.erols.com (207.172.110.102) TotAL PACKETS 1,700 TotAL BYES 1269,792 KBITS/S 136.680 LARGEST PACKET 1,518 AVERAGE PACKET 52746		Nodes	Protocols	Applications	Flat	~	Search	×	±	3
Packets Events	Protocol statistics limit reached at 3/20/2025 18:45:17										×
Expert	PROTOCOL	BYTES %						BYTES	.	PACK	ETS ····
Clients/Servers	тср							629,8	39		799
Applications Event Summary Event Log Web Servers	FIFU8							5,0	57		51
Clients Pages Requests											
Voice & Video Calls Media											
Visuals Peer Map Graphs Reconstructions Statistics Summary											

Nodes Protocols

Context Menu Operations:

BYTES 💌	PACKETS ····
0	0
0	0
448,273	568
0	0
4,500	45 •••
	Protocol Details
	Expand Selection
	Collapse Selection
	Select Related Packets
	Multi-Segment Analysis
	Make Alarm
	Make Filter
	Make Graph
	Insert Into Name Table

Clicking the "..." button at the end of each row in the table will display the context menu for each protocol with the following options:

- "Protocol Details":
 - Clicking this item will open a new Details Statistics View for the protocol in addition to the current nodes, protocols or applications for the current Details Statistics View
 - This item will be disabled if the protocol is already a part of the current Details Statistics View
- "Expand Selection": This item will expand all child items in the tree view for this protocol (only visible if viewing protocols in "Hierarchy" Mode)
- "Collapse Section": This item will collapse all child items in the tree view for this protocol (only visible if viewing protocols in "Hierarchy" Mode)
- "Select Related Packets": This item will redirect to the Packets View and select all packets in the Packets View that match the protocol. This item is disabled if the user cannot view packets or there are no packets in this Capture or Forensic Search.
- "Multi-Segment Analysis": This item will redirect to the Multi-Segment Analysis View with the start and end time being the first and last time the protocol was captured, and the filter pre-populated with a filter for the protocol. This item is disabled if the user cannot upload files or create a forensic search.
- "Make Alarm": This item will redirect to the Alarms View with the name of the new alarm being the protocol, and the units being "Total Bytes Per Second"
- "Make Filter": This item will redirect to the Filters View with a protocol filter pre-populated with a filter for the protocol

- "Make Graph" (not in Omnipeek Windows): This item will redirect to the Graphs View with the name of the new graph being the protocol, and the units being "Bytes", and the graph table pre-populated with the protocol and "Total Bytes"
- "Insert Into Name Table" (only enabled for protocols that aren't already identified by protospecs): This item will pop up a dialog allowing the user to insert this protocol into the name table (the protocol type will be pre-populated to the best match, and the entry pre-populated to the protocol name)

Applications

≡ ё LiveWire	e	තු	ĉ	admin
Engines / 1 / Forensic Sea	rches / Packet2024-11-06T11.34.31.676 2 / Detail Statistics			
Home Captures Forens	ics Files Forensic Searches Events Adapters Settings Admin			
ℰ Home Dashboard	Details For 10.8.100.106 Details For 10.8.100.106 Nodes Protocols Applications Hierarchy y Expand All Collapse All Search	~	*	a
Network Applications Voice & Video Compass Capture	TOTAL PACKETS 769,418 LARGEST PACKET 1,498 TOTAL BYTES 1,108,000,808 SMALLEST PACKET 1,98 KBITS/S 6,059,311 AVERAGE PACKET 1,440	~	ale	0
Packets Events	APPLICATION BYTES % BYTES ~		PACK	TS
Expert	> Network Management 553,996,034	Defa	ault Col	Imns
Clients/Servers	> Generic 4,370	All C	Columns	;
Flows Applications Event Summary Event Log		 ✓ App ✓ Byte Pac 	lication es % kets %	
Web Servers Clients Pages Requests		 Byte Pac Firs Las Dura 	es kets t Time t Time ation	
Voice & Video Calls Media				
Visuals Peer Map Graphs Reconstructions				
Statistics Summary Nodes Protocols Applications Countries MPLS/VLAN/VXLAN				

The applications table can display the following values, which the user can toggle by clicking the "..." button on the far right of the table header:

- "Application" (default): The name of the application. If a color is associated with this application, the text will be displayed in that color.
- "Category" (default, only in "Flat" Mode): The category of the application
- "Bytes %" (default):
 - The percentage of bytes sent and received in comparison with all applications in the Details Statistics View
 - Hovering over the bar graph will display the numerical percentage value in a tooltip
 - If a color is associated with this application, the text will be displayed in that color
- "Packets %":
 - The percentage of packets sent and received in comparison with all applications in the Details Statistics View
 - Hovering over the bar graph will display the numerical percentage value in a tooltip
 - If a color is associated with this application, the text will be displayed in that color

- "Bytes" (default):
 - The bytes sent and received in comparison with all applications in the Details Statistics View is displayed on the top
- "Packets" (default):
 - The packets sent and received in comparison with all applications in the Details Statistics View is displayed on the top
- "First Time": The timestamp of the first packet for this application
- "Last Time": The timestamp of the last packet for this application
- "Duration": The duration of time in which the packets for this application were captured

The Hierarchy Mode:

• When showing applications in hierarchy mode, the only parent item is the category for the children items.

Context Menu Operations:

BYTES 🔻	PACKETS ····
443,587	577
9,186	Application Details
	Select Related Packets
	Multi-Segment Analysis
	Make Alarm Make Filter Make Graph

Clicking the "..." button at the end of each row in the table will display the context menu for each application with the following options:

- "Application Details":
 - Clicking this item will open a new Details Statistics View for the application in addition to the current nodes, protocols or applications for the current Details Statistics View
 - This item will be disabled if the application is already a part of the current Details Statistics View
- "Select Related Packets": This item will redirect to the Packets View and select all packets in the Packets View that match the application. This item is disabled if the user cannot view packets or there are no packets in this Capture or Forensic Search.
- "Multi-Segment Analysis": This item will redirect to the Multi-Segment Analysis View with the start and end time being the first and last time the application was captured, and the filter pre-populated with a filter for the application. This item is disabled if the user cannot upload files or create a forensic search
- "Make Alarm": This item will redirect to the Alarms View with the name of the new alarm being the application, and the units being "Total Bytes Per Second"
- "Make Filter": This item will redirect to the Filters View with an application filter pre-populated with a filter for the application
- "Make Graph": This item will redirect to the Graphs View with the name of the new graph being the application, and the units being "Bytes", and the graph table pre-populated with the protocol and "Total Bytes"