

# cPacket cClear® Analytics Engine and Administration Console



Comprehensive network observability and security  
for a single point of command and control

In a world of zero downtime, ongoing change and constant risks, the cPacket cClear Analytics Engine and Administration Console provides actionable intelligence about your entire hybrid infrastructure, from the data center to the branch location to the cloud. The solution correlates, visualizes and presents data in a simple, easy-to-consume way that saves valuable time, keeping business-critical networks performant and secure.

Additionally, cPacket cClear is the user interface for all cPacket devices deployed anywhere in your hybrid-cloud network, giving you unified administration and management.

## Your whole network in a single pane of glass

cPacket cClear's customizable dashboards provide rich data visualizations, with interactive drill-down insights into traffic details and key performance indicators (KPIs) using real-time and historical data from cPacket cVu packet data brokers and cStor packet capture and analytics observability nodes.

cPacket cClear's dashboards enable the IT team to understand and troubleshoot network behavior to help maximize security, deliver exceptional end-user experiences and support compliance reporting requirements across multi-cloud and hybrid cloud environments.

Using cPacket cClear, users can view detailed network metrics, search network data in real-time, and use baselining to help identify security issues proactively.

cPacket cClear integrates with cPacket cVu packet data brokers and cPacket cStor capture and analytics observability nodes to provide the most accurate packet-data-based metadata for observability.

cPacket cClear makes network observability easier by correlating and presenting data in a simple, easy-to-use interface.

### cPacket cClear delivers:

- One-click access to network analytics and data
- An open platform for easy integration with other tools
- Open and customizable configuration and reports
- Searches for specific hosts, threats and network compliance deviations
- Microburst analysis visualization
- Application behavior visualization based on deep packet inspection (DPI)

## Three configurations—one great solution

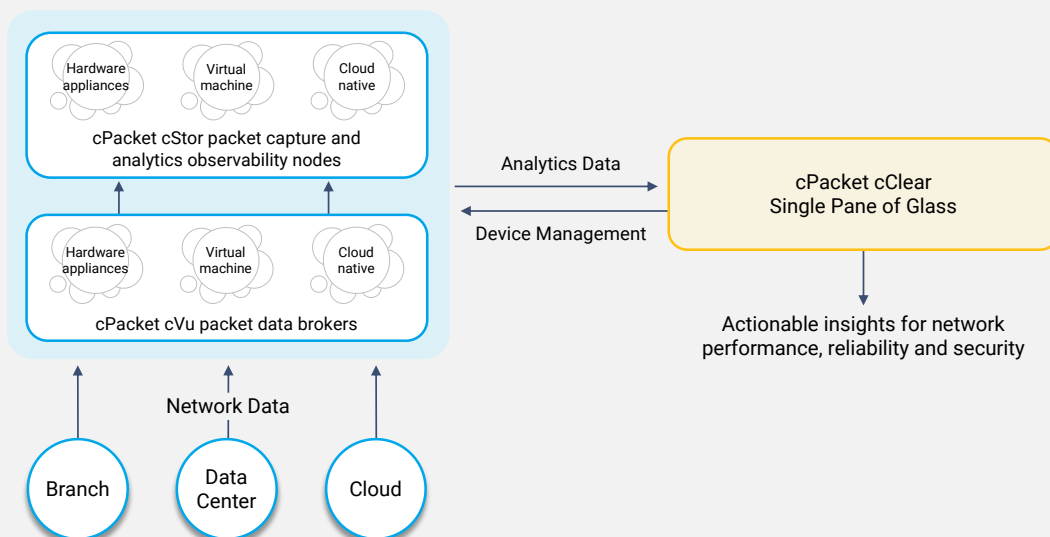
The cPacket cClear observability platform is available as a hardware appliance or virtual appliance that can run as a local virtual machine (VM) or cloud VM.

When running as a multipurpose hardware appliance, cClear collects, analyzes and visualizes network data, also providing a unified administration console. When running as a virtual appliance, cClear provides virtual machine (VM)-based data collection and analytics aggregated from physical and virtual devices.

Both hardware and virtualized software configurations offer the same great features for a single point of command and control:

- Aggregate, analyze and present network intelligence for the entire cPacket Networks visibility stack
- Just one physical appliance or virtual instance is needed for network intelligence and administration
- Seamlessly spans on-premises, cloud and hybrid data centers and branches
- Support for the major public cloud platforms—Amazon Web Services (AWS), Google Cloud, and Microsoft Azure. Check with cPacket Networks or your authorized cPacket sales representative for the complete list of supported public cloud environments.

## Get the cPacket cClear Solution



## cPacket cClear benefits

- Single pane of glass analytics and dashboards
- Global search
- Data correlation and baselining
- Open APIs
- Network-wide system alerts
- Remote software update
- Status overview with real-time port utilization
- Direct connectivity and drill-down to devices, port and endpoint groups
- Quick filtering and global search for all or specific cVu ports with unique string patterns
- Library of predetermined and saved filters for automation of ease of access
- Customized graphical dashboards
- Backup/restore and scheduling of configuration files
- Multi-user privilege-defined roles with centralized RADIUS/TACAS+ and local authentication controls.
- SNMP-based notifications of network health and threshold-crossing events
- Customizable, interactive dashboards displaying
  - Network KPI metrics
  - Packet capture panel
  - Visualized microburst analytics (up to millisecond resolution)
  - Visualized packet-based latency, error and connectivity measurement
  - Top talkers for understanding network utilization
  - Visualized network protocols behavior including HTTPS, DNS, ICMP, DHCP etc
  - Visualized multicast network structure
  - Visualized market-data feeds errors and one-way latency
  - Visualized VPN and Video streams errors and jitter

## What the cClear platform can do for you

- Extend coverage from branch offices to data centers with a single point of command and control.
- Offer seamless end-to-end visibility of your entire hybrid IT environment.
- Receive network-wide real-time status and alerts.
- Provide complete visibility across north-south and east-west traffic paths to enable a hybrid IT environment of business-critical operations.
- Receive network-wide real-time status, usage, and alert information from all physical, virtual and cloud-monitored devices.
- Carry out real-time data analysis, rapid query, and comprehensive reporting functions through an integrated, single-pane-of-glass management dashboard that visualizes network-wide behaviors across multiple views with correlation, drill-down, and one-click access to captured packet data (PCAP)
- Deliver an easy-to-manage and cost-optimized solution that best uses physical rack space to drive analytics.
- Integrate with cloud-native VPC packet/traffic mirroring services such as AWS VPC Traffic Mirroring and Google Cloud Packet Mirroring
- Customize and export specific packet data in the PCAP file format to other tools from captured packets.
- Leverage open architecture to interface with third-party analytics and security solutions, locally or remotely, to blend and display combined KPI metrics and PCAP data sources.
- Automate workflows and integrate with AIOps and other systems using an open API.
- Facilitate detailed visibility into network traffic flowing through physical networks at data rates of 1 Gbps to 100 Gbps.
- Work with real-time and stored network packet data acquired by cPacket cVu@/cVu@-V Network Packet Brokers and captured and stored by cPacket cStor/cStor-V Network Packet Capture appliances.
- Interactively view network packets and traffic KPIs in customizable dashboards, and export data for capacity planning, performance management, threat detection and regulatory reporting.
- Troubleshoot physical and virtual resources utilizing user-defined quick filters, global search and predictive analytics.
- Visualize deep packet inspection (DPI) results performed by cStor packet capture and analytics devices.
- Get started quickly with executable images and installation scripts for Amazon Web Services (AWS), Google Cloud and Microsoft Azure.

## Key Features

	On Premise			Cloud
	cClear E	cClear E SED	cClear-V	cClear-V
<b>Dashboards - Grafana based</b>	Yes	Yes	Yes	Yes
<b>Fully Integrated Workflows</b>	Yes	Yes	Yes	Yes
<b>Millisecond Analytics</b>	Yes	Yes	Yes	Yes
<b>Global Search</b>	Yes	Yes	Yes	Yes
<b>Data Correlation and Baselining</b>	Yes	Yes	Yes	Yes
<b>Open API</b>	Yes	Yes	Yes	Yes
<b>Network-Wide System Alerts</b>	Yes	Yes	Yes	Yes
<b>Remote Software Update of All Devices</b>	Yes	Yes	Yes	Yes
<b>Status Overview with Real-Time Port Utilization</b>	Yes	Yes	Yes	Yes
<b>Direct Connectivity and Drill-Down to Devices, Port Groups, Endpoint Groups</b>	Yes	Yes	Yes	Yes
<b>Multiple (cStor) PCAP Download/Merge with Time Selection, Size and BPF Filtering Criteria</b>	Yes	Yes	Yes	Yes
<b>Quick Filtering and Global Search for All/Specific (cVu) Ports with Unique String Pattern</b>	Yes	Yes	Yes	Yes
<b>Library of Predetermined and Saved Filters for Automation and Ease of Access</b>	Yes	Yes	Yes	Yes
<b>Customization of Graphical Dashboards and Import/Export of Shared Files and Utilities</b>	Yes	Yes	Yes	Yes
<b>Backup/Restore and Scheduling of Configuration files for All/Selective cVu/cVu-V, cStor/cStor-V Devices</b>	Yes	Yes	Yes	Yes
<b>Multi-User, Privilege-Defined User Roles with Centralized RADIUS/TACACS+ and Local Authentication Controls</b>	Yes	Yes	Yes	Yes
<b>SNMP based Notifications of Network Health and Threshold Crossing Events</b>	Yes	Yes	Yes	Yes
<b>Interactive Dashboards:</b>				
• Network KPI Metrics				
• Packet Capture Panel				
• cBurst Millisecond-Resolution Analytics	Yes	Yes	Yes	Yes
• Packet and Flow Measurements				
• Network Connection Latency/Masurement				

## Technical Specification

	On Premise			Cloud
	cClear E	cClear E SED	cClear-V	cClear-V
Delivery Format	Appliance	Appliance	OVA	AMI, GCP, Azure
Physical/Hypervisor/Cloud Platform	Dedicated Appliance	Dedicated Appliance	VMware ESXi, Microsoft Hyper-V, RedHat KVM, Cisco NFVIS	AWS, GCP, Azure
Physical/Virtual NIC Support	2x 10/100/1000 RJ45	2x 10/100/1000 RJ45	Yes	Yes
Tunneling Support	VXLAN, ERSPAN	VXLAN, ERSPAN	VXLAN, ERSPAN	VXLAN, ERSPAN
High-Performance Mode	Dedicated Appliance	Dedicated Appliance	DPDK/SR-IOV	DPDK/SR-IOV
Physical/Virtual Port (Management)	2	2	1	1
CPU/vCPU	Intel Xeon 20 Core	Intel Xeon 20 Core	4	4
Memory	512GB	512GB	16GB	16GB
System Disk	240GB SSD	256GB SSD SED	50GB (Recommended)	
Secondary Storage	30TB NVMe	30TB NVMe SED	250GB (Recommended)	



### About cPacket Networks

cPacket Networks de-risks IT I&O through network-aware service and security assurance across hybrid and multi-cloud environments. Our AIOps-ready Intelligent Observability Platform provides single-pane-of-glass analytics and deep network visibility required for complex IT environments enabling Fortune 500 organizations around the world to keep their business running. cPacket solutions are fully reliable, tightly integrated, and consistently simple. Our cutting-edge technology enables network, application, and security teams to proactively identify issues before negatively impacting the business. The result: increased service agility, enhanced experience assurance, and faster transactional velocity. Learn more at [cpacket.com](https://cpacket.com).