

# JOINT SOLUTION BRIEF

# Achieve Telco-Grade Network Visibility with Cubro and Red Hat OpenShift

Red Hat Software Partner



Improving network visibility and preventing data center downtime.

“Cubro’s network packet brokers provided direct application visibility via deep network visibility, sustained monitoring and performance analytics. Cubro’s solutions are scalable to accommodate increasing volumes of activity.”

Large data center in Asia-Pacific



Technology Partner

## Network Visibility from bare-metal to hybrid clouds

As transformational technologies like 5G, SDN/NFV, SD-WAN, virtualization, cloudification and IoT are adopted, networks are becoming increasingly complex with additional blind spots arising. These blind spots can hide network performance and security threats because they are not visible. Service providers and enterprises must see all their data and applications in real time to secure and manage growing network and traffic demands while improving productivity and watching for security attacks and leaks.

## Executive Summary

Cubro visibility solutions are a key component for successful monitoring, security and analytics of initiatives including:

- 5G/4G/3G Service Assurance, including 5GC data capture in containerized environments orchestrated by Red Hat OpenShift
- Customer Experience Management
- Digital Transformation
- Data Security
- Software Defined Networking
- Network Functions Virtualization
- Next Generation Virtualized Data Centers
- High Performance Networks

## Product Profile

Cubro’s Network TAPs, Advanced Network Packet Brokers, Network Probes and Bypass Switches observe all traffic traversing an organization’s networks and copy relevant data, including on-premise, cloud and virtualized environments. As a result, the data is passed efficiently to network monitoring, security, and analytics solutions to prevent blind spots.

*"Cubro captures layer 2 through 7 packet header and payload from each session for a complete record of network activity. The solution handles high bandwidth network traffic with no lost or dropped packets identifying blind spots in the network."*

#### European Defence Organization

#### About Cubro

Cubro network visibility solutions remove network monitoring 'blind spots' to provide enhanced visibility and control of all data transiting a company's network. The company was founded in 2003 in Vienna, Austria. Cubro has a global presence with offices in different geographic locations to serve customers across different time zones. Cubro delivers unrivalled solutions to Service Providers and Enterprises in both the private and public sector. For more information, please visit [www.cubro.com](http://www.cubro.com).

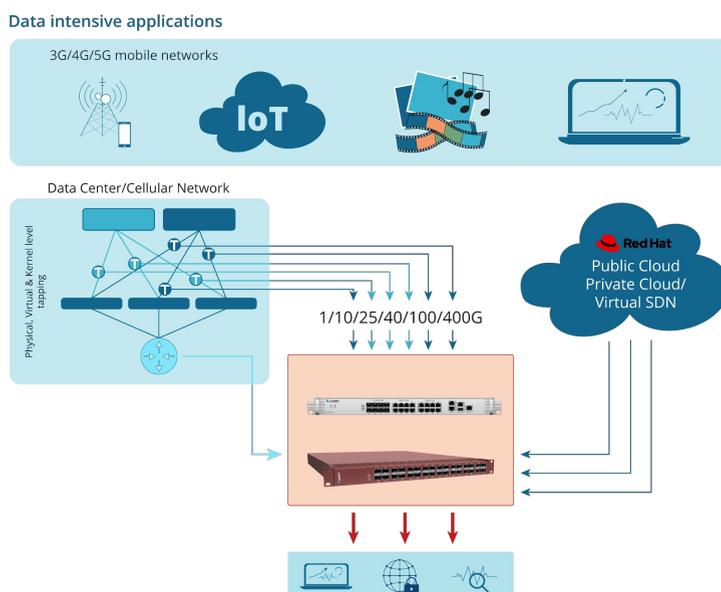
#### About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

## Product Benefits

Cubro products reveal network data in blind spots by capturing full traffic, identifying possible problems, and making analysis possible.

- **Improved Service Quality** with the capability of analyzing traffic without overloading the analytics tools using packet filtering, slicing and IPFIX or similar protocols
- **Increased Security** with Cubro high performance NPBs producing all necessary information to security tools in filtered or un-filtered
- **Reduction of Blind Spots**, which requires capturing full traffic, filtering and formatting to required formats and producing relevant data to the monitoring tools without overwhelming them so they stay operational.



## Use Cases

- **Unknown subscriber behavior in the network.** Selected subscriber traffic is filtered and forwarded to the monitoring tools load-balanced with subscriber ID.
- **Troubleshoot network elements.** Extract traffic from malfunctioning network equipment. The extracted data proved to be valuable and greatly decreased time spent resolving the issue.
- **Minimize the costs of network tools.** Cubro advanced packet brokers reduce traffic and provide feed in the right format to the network tools reducing the required resources.

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