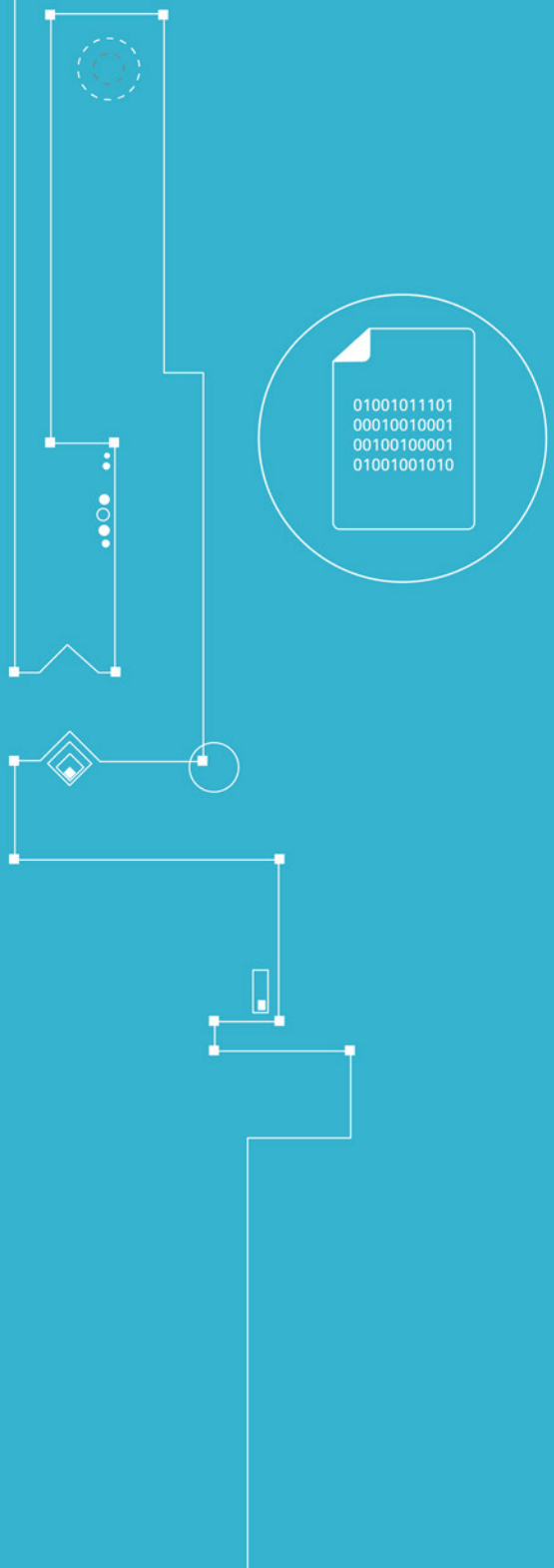
CUBRO
NETWORK VISIBILITY



CUSTOS

DATA SHEET

Published at Cubro, May 2024

Please refer to the latest version of this document on our website
to ensure you have the most up-to-date information.

Custos

At a glance

Definition

Custos, a Latin word meaning a guardian, is a low-cost embedded network monitoring software application option for Omnia that keeps a watchful eye on your companies' network. It provides immediate information from the moment it is installed and develops a comprehensive understanding of your network's behaviour over time.

Advantages of Custos

- Network Performance Dashboard
- Traffic & Service Overview
- Threat Detection
- Geolocation
- Deep Packet Inspection and enriched IPFIX output

Product Overview

In today's dynamic business landscape, where markets, services, and products are interconnected, the internet serves as the primary conduit for companies to engage with customers, facilitating online marketplaces, payment processing, marketing, communications, and beyond. Therefore, a secure and dependable network forms the bedrock of a thriving business.

Large enterprises have the benefit of being able to allocate extensive resources to IT staff and infrastructure to keep their networks operational and secure. Small to medium-sized business, on the other hand, typically need to work with smaller budgets and fewer dedicated IT personnel. In many small office settings, the responsibility of the network and computing platforms may just be the most tech-savvy person on staff.

Regardless, the network is no less critical to business operations and limited resources mean a network failure or security incident is even more difficult to recover from.

Functions / Benefits

- Inventory Scan
- Traffic & bandwidth analytics per client / per service / per time-window
- Performance statistics based on geo endpoints
- Security and Threat Detection
- Application Filtering by DPI (requires Cubro Network Packer Broker)
- Up to 4000 supported services

Capabilities across supported platforms

Feature/Platform	Omnia120	x64 Server-based*
Network Performance Dashboard	No	Yes
Threat Detection	No	Yes
Inventory Scan	No	Yes
Service Overview	Yes	Yes
Inbound and Outbound Traffic Geolocation	No	Yes
Application Filtering	Yes	Yes, but an external NPB is required
Maximum number of clients	App filter only: Not limited Full Custos: 10.000	50.000
Maximum bandwidth	40 Gbit/s	20 Gbit/s** Up to 100Gbit/s
Maximum Packet Size	9600byte	Depending on server NIC
System Memory	48G	Minimum 64G DDR4
System Storage	2Tbyte M.2 NVMe SSD	Minimum 2Tbyte SSD

*Requires minimum one of the following components as data feeder:
- Omnia120
- Omnia200/400
- Omnic NIC

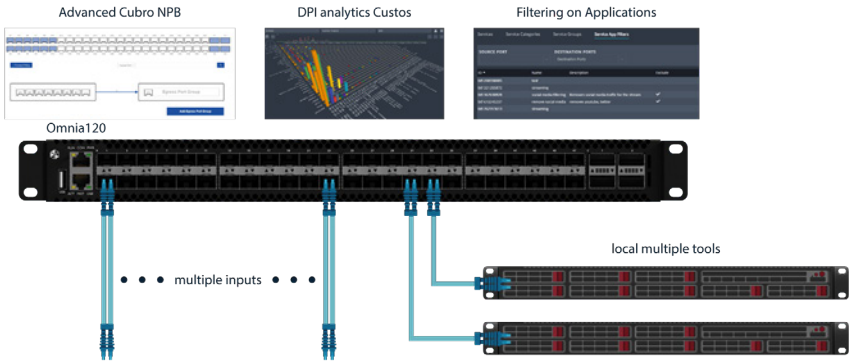
**Valid per data feeder

Applications / Solutions

Custos on Omnia120

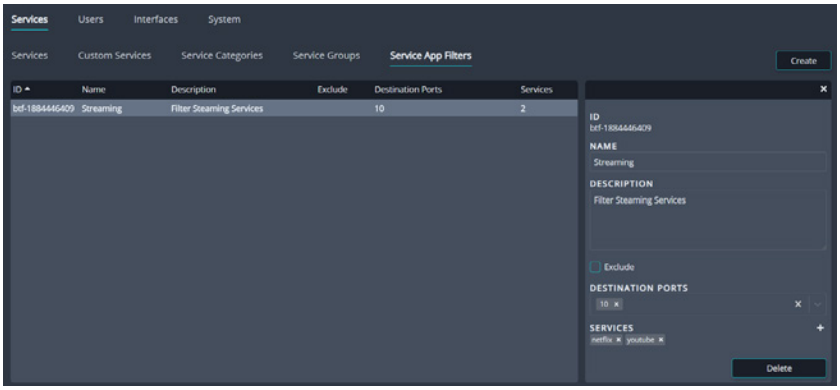
Custos on Omnia120 provides unique traffic management on an application basis. High bandwidth-consuming services like YouTube, Netflix, and others can be identified and removed to reduce the overall analyzed traffic on external tools and effectively save costs on bandwidth-based licenses.

Omnia120 together with Custos is a single-box solution that does not require any additional hardware components (no external data feeder is required). Omnia120 can be used as a data feeder for x64-based Custos.



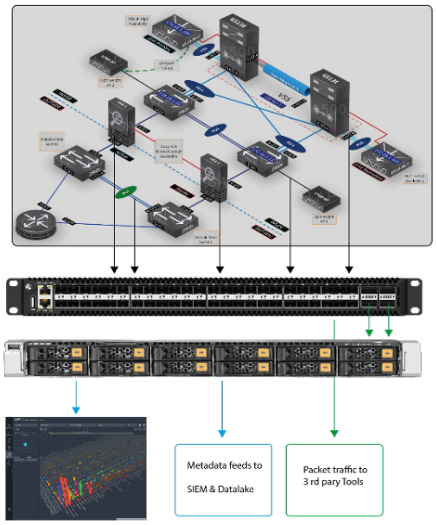
Application Filtering

Select OTT applications and services to redirect or block highly utilized sessions.



Custos on x64 Servers

Omnia120 or other network packet brokers collect raw packets from different network feeds for large deployments. These feeds, originating from TAPs, Bypass devices, or SPAN ports, are all linked to the Cubro NPB and the packet broker.



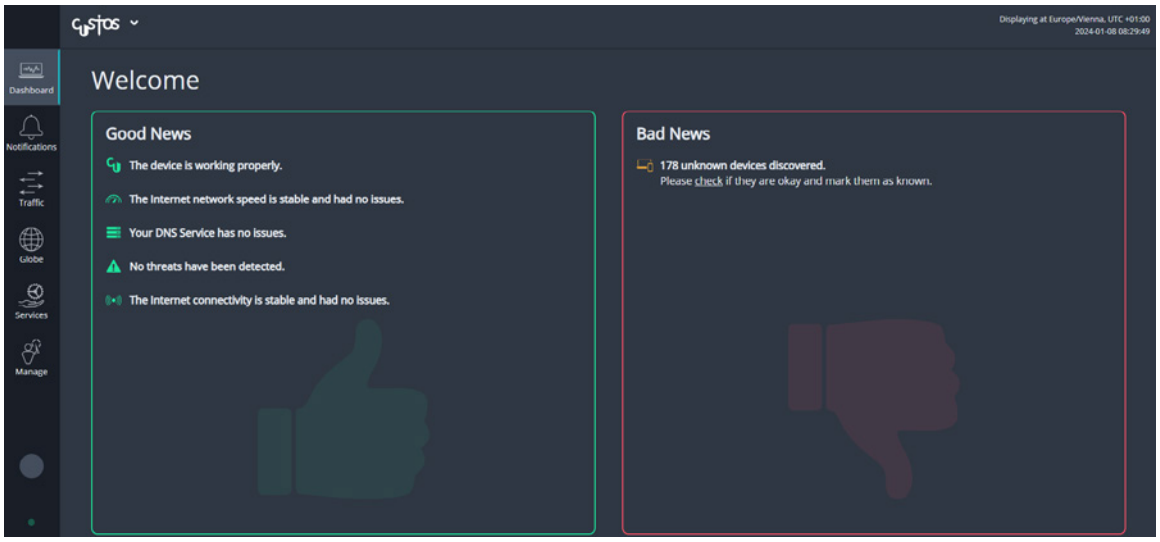
If needed, the NPB performs aggregation and filtering and removes tunnel and unwanted headers from the packet, subsequently enhancing monitoring efficiency. Then the NPB load balances the raw packet traffic to the Custos data feeders (e.g. Omnic Cards mounted in a server) for analytics. Furthermore, the Cubro NPB can also forward copies of the raw traffic to 3rd party tools.

The data feeder does the DPI analytics, and the data is then stored on the server and presented via the Custos application running on the server.

Finally, the Custos data can be directed southbound to SIEM and Data Lake solution for further processing.

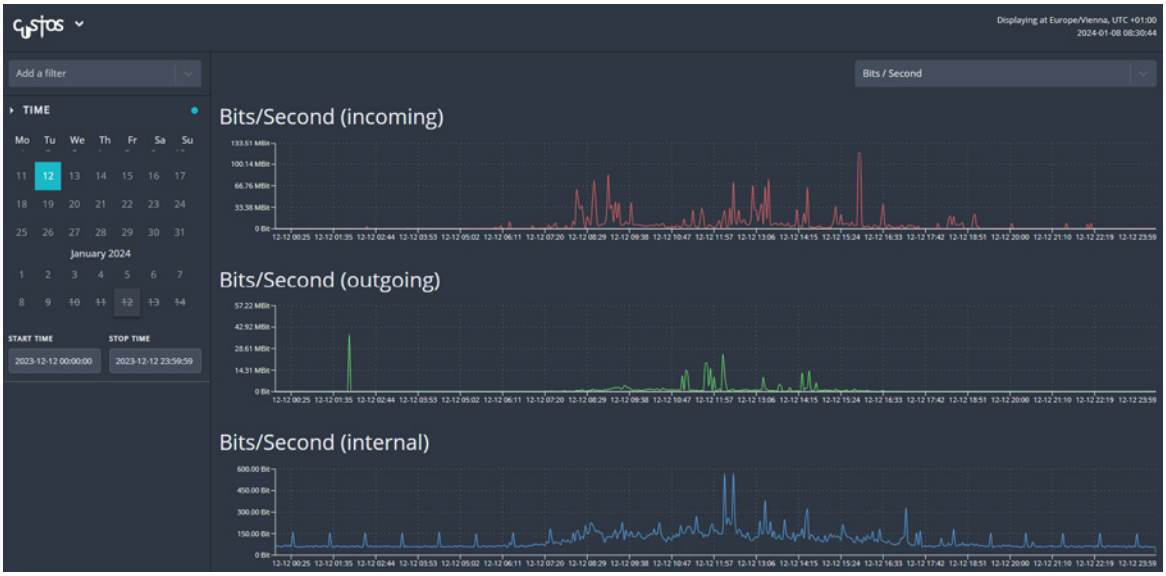
Network Performance Dashboard

The network performance dashboard provides visibility into network performance. The clean layout and intuitive user interface distinguish between what's functioning properly and any issues that must be resolved. The dashboard provides an overview of the devices on the network, which services are running on the devices, the performance of internet connectivity, threat detection, etc.



Traffic Overview

Custos provides continuously updated information regarding internet speed under the traffic overview section. Easily monitor internet traffic bandwidth by monitoring inbound and outbound traffic. With this feature, you can get a deeper insight into the usage of network resources.



Threat Detection

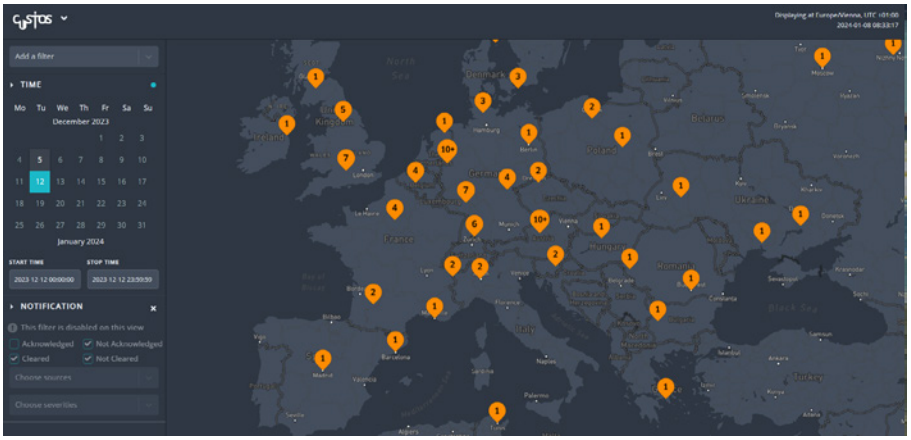
The network team needs to know everything occurring on the network to ensure, among other things, that no suspicious activity is overlooked. The display of Custos provides continuous threat detection monitoring and alerting. The alerts are organized by severity for efficient remediation. Regular scanning detects network anomalies and identifies unknown devices through methods such as IP scanning and suspicious DNS requests.

Service Overview & Deep Packet Inspection

This feature lists all services running on each device in your network, such as WhatsApp, Skype, Windows updates, etc. The detection is based on DPI. Loss of email, HTTP, or FTP server availability for even just one hour can result in a loss of revenue for a business. Therefore, it is crucial to know the availability of all necessary services on devices. Conversely, this also identifies the use of unknown or deprecated services so appropriate action can be taken.

Inbound and Outbound Traffic Geolocation

A global view offers an overview of geolocation associated with source and destination traffic flows. It shows a geographical representation of where traffic is coming from and going to, likely by IP address.



Ordering Information

Part Number	Description
Custos on Omnia120	
CUB.OM-120-CBUNDLE	Omnia120 Bundle including all ports, CPUs, SM and Custos license
CUB.DPI-OM-120	DPI License for Sessionmaster Omnia120 (yearly fee)
Custos on x64 Server	
CUB.OMNIC-425	Omnic425 NIC 4x25G
CUB.OMNIC-2100	Omnic2100 NIC 2x100G
CUB.OMNIC-SW-CU	Omnic Custos metadata generation software
CUB.DPI-OMNIC	DPI License for Omnic425 NIC & 2100 NIC

For more information please check our website www.cubro.com