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Best Practices Netzwerk-Visibilität

Der PacketBroker als Daten-Drehscheibe

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1. Was ist ein PacketBroker?
2. Wie kommt man an die Messdaten?
3. Messaufbau / UseCase Visibility
4. Zusätzliche Features
5. Analyse im 400G Netz mit einem 10G Analyzer?

Was ist ein PacketBroker?

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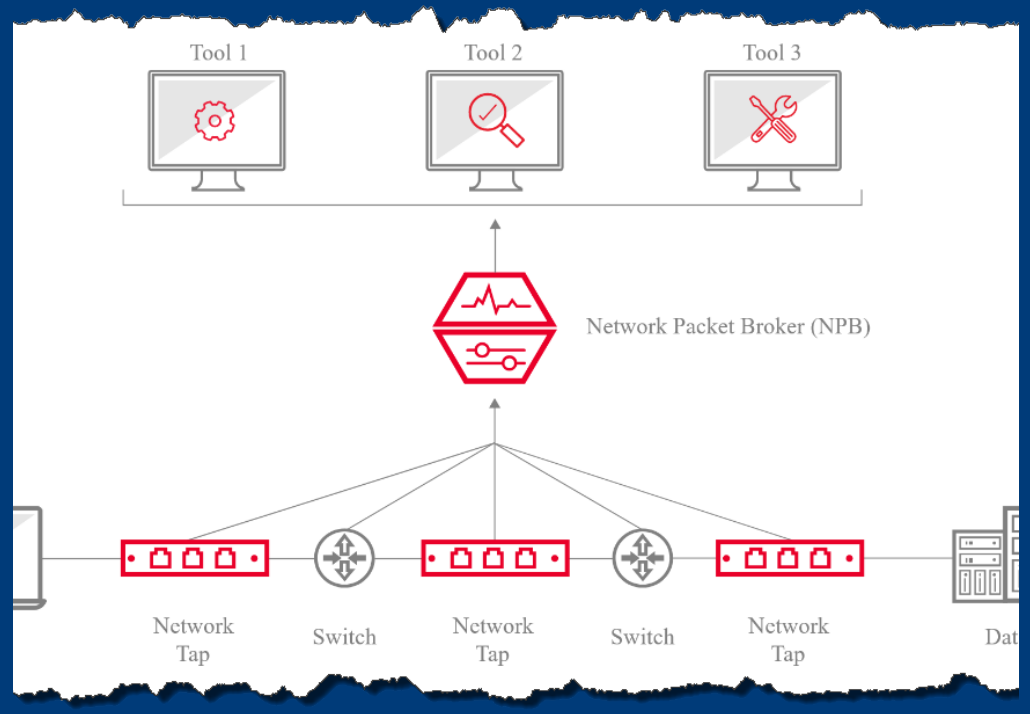
Der PacketBroker ist ein «Handelsplatz» für Messdaten

- Sammeln von Messdaten aus verschiedenen Quellen
- Senden von Messdaten an Analyzer / Tools

Das richtige Paket, zur richtigen Zeit, beim richtigen Tool

Paketverarbeitung

Lastverteilung auf mehrere Analyser / Tools



Wie kommt man an die Messdaten?

Messaufbau
UseCase Visibility

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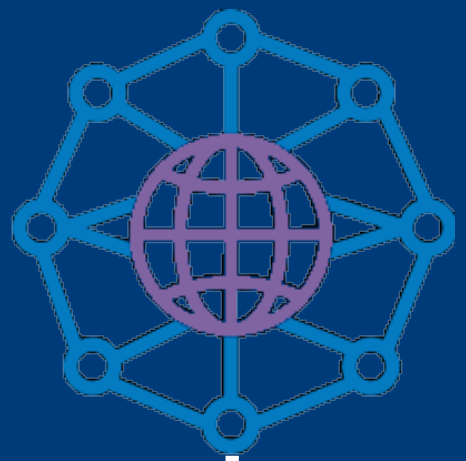
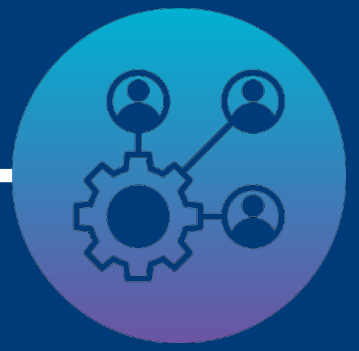
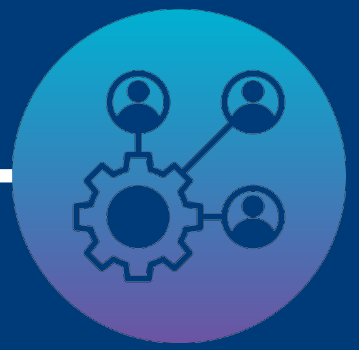
Ausgangslage

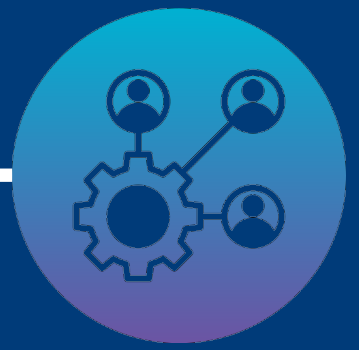




Storage Team

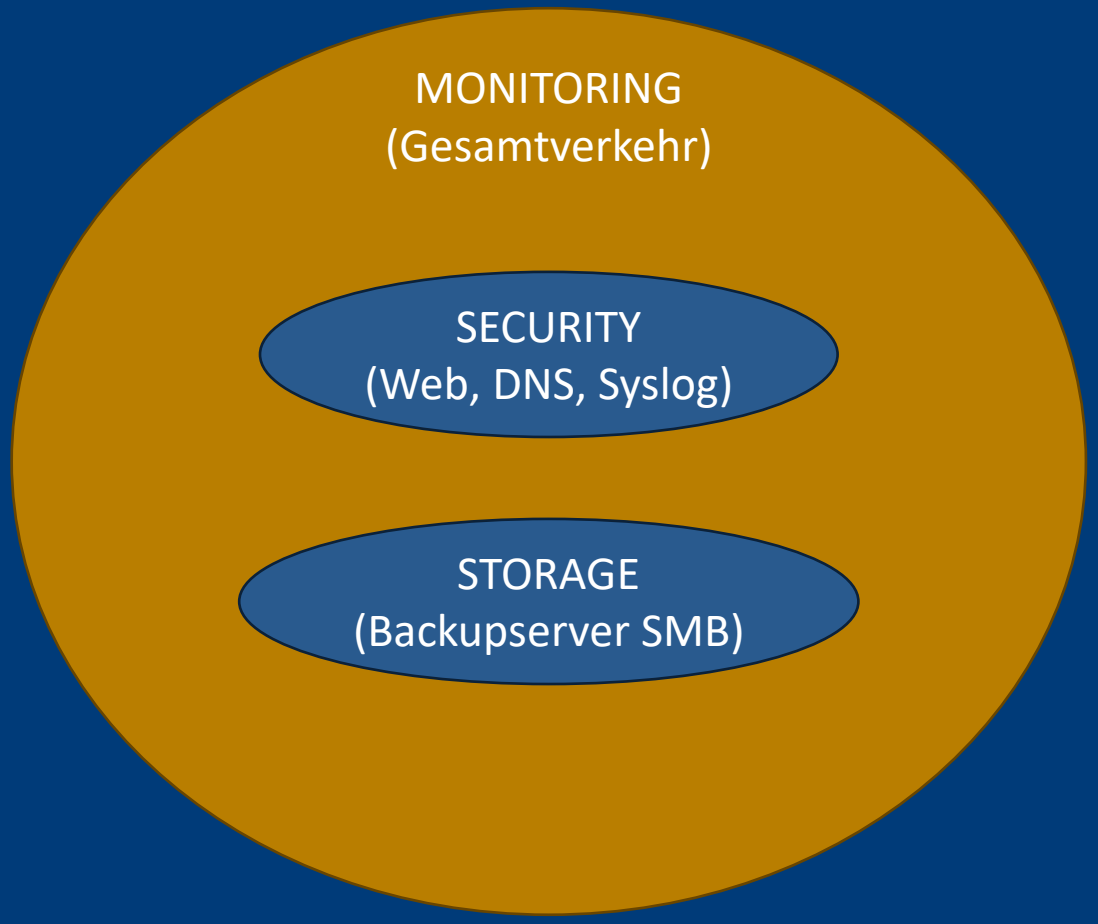


Security Team



Monitoring Team

Application Mix



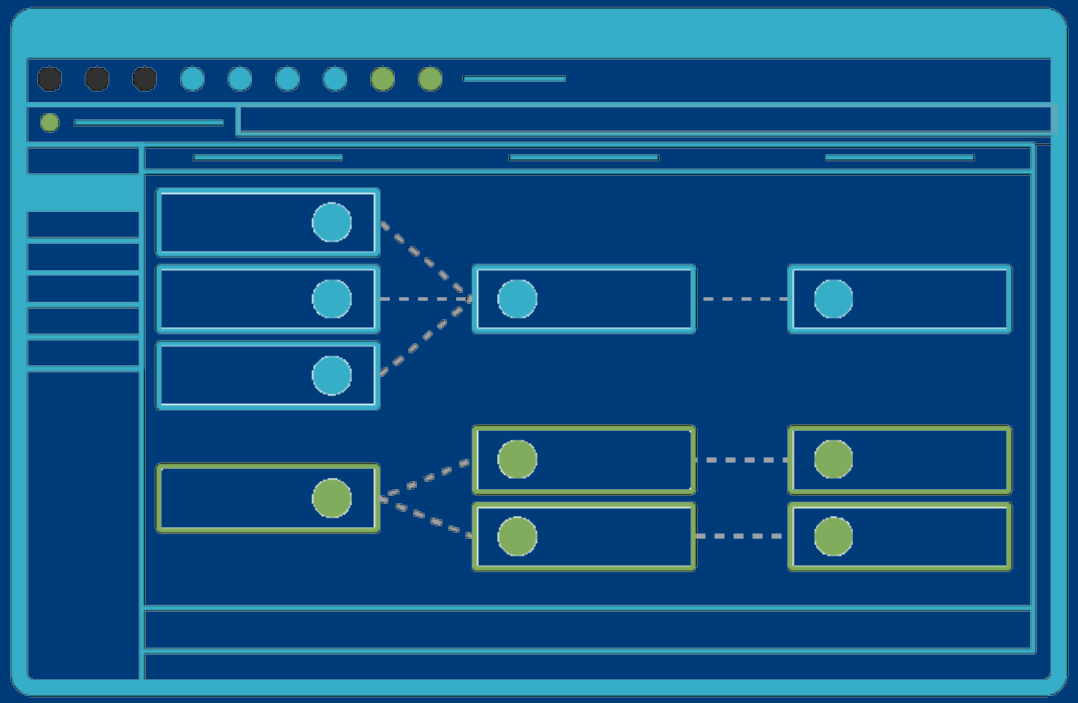
Testing Setup

Traffic Generator

PacketBroker

Analyzer

Keysight PacketBrokers



Dynamische Paketverarbeitung patentiert von Keysight

Messdaten können je nach Bedarf an mehrere Tools/Analyzer verteilt werden.

Vision E40

KEYSIGHT

Startup Guide (PDF)

Web Console Help

Welcome to Vision E40
The Vision E40 provides a cost effective solution to the challenges of monitoring enterprise networks by extending the range and depth of security and network tool coverage in the data center. This Vision E40 increases network visibility, optimizes tool utilization, and helps speed troubleshooting efforts. You can immediately optimize efficiency for a wide range of network tools such as application monitors, protocol analyzers, IDS, VoIP analyzers and data recorders.

Contact Information
Visit **our support page** for support and contact information. For more information about the full assortment of Keysight's products, please visit **ixiacom.com**.

Launching the Vision E40 Web Console
Use the default user name (admin) and default password (admin) to sign on to the system the first time.

Accessing the REST Web API documentation
Visit the **documentation page** to access a description of the REST Web API service available on this device.

Downloads
You may download and install the packages by clicking on the links below.

SNMP MIBs **RADIUS Dictionary**

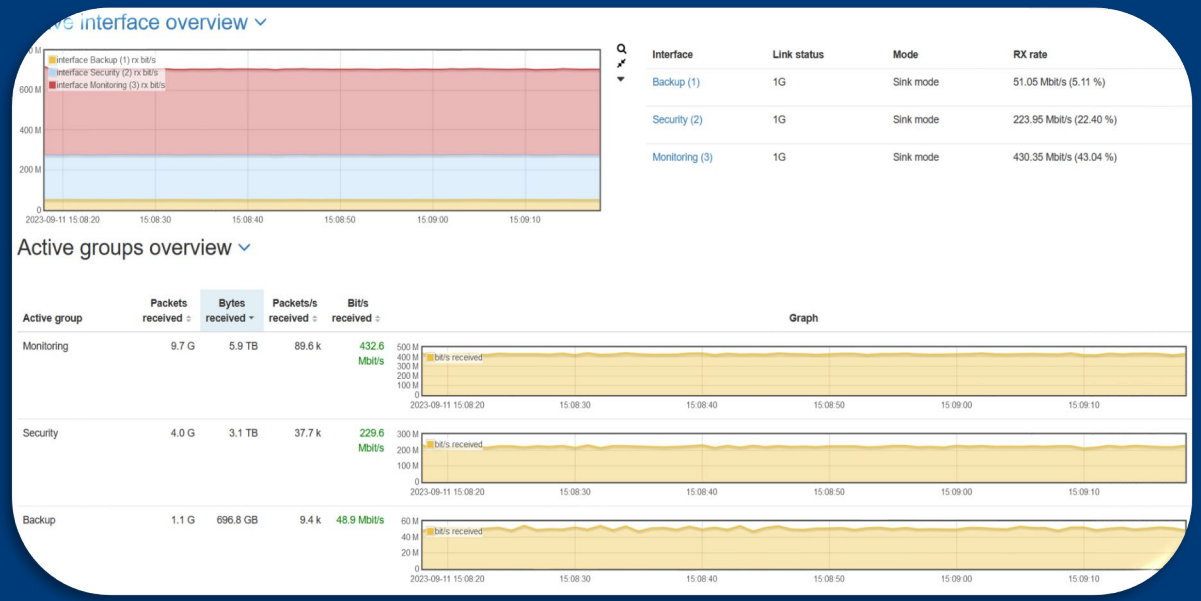
LAUNCH WEB CONSOLE

System Info

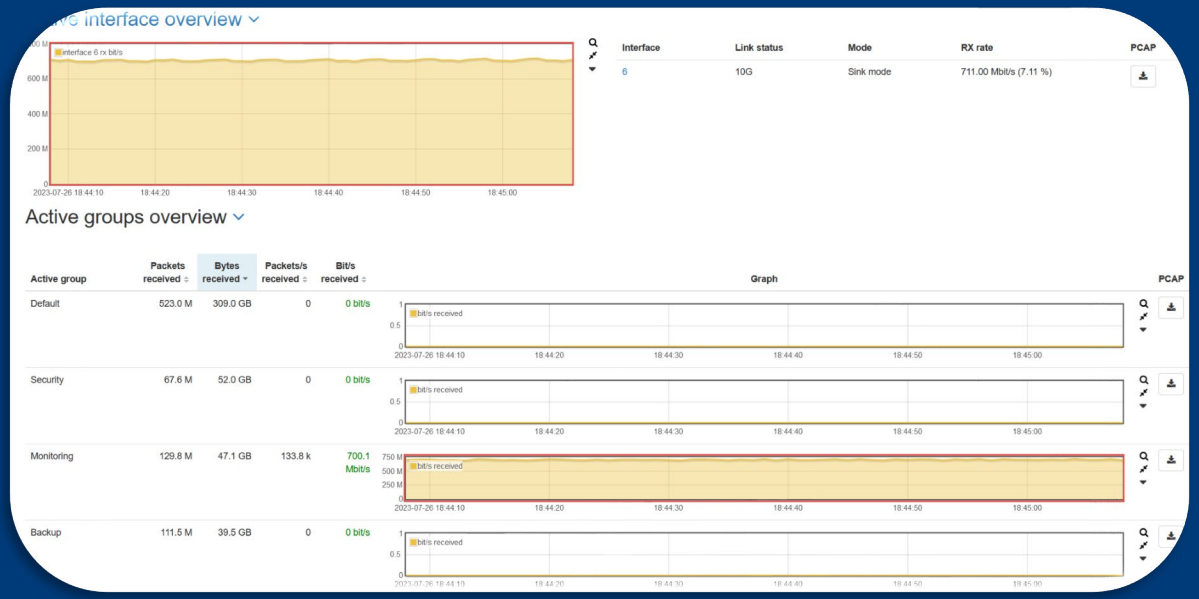
```
1 Vision E40
Status: Normal
```

Server software version 6.2.1.9-20230530-135905-54be40

Keysight PacketBroker



Herkömmliche PacketBroker



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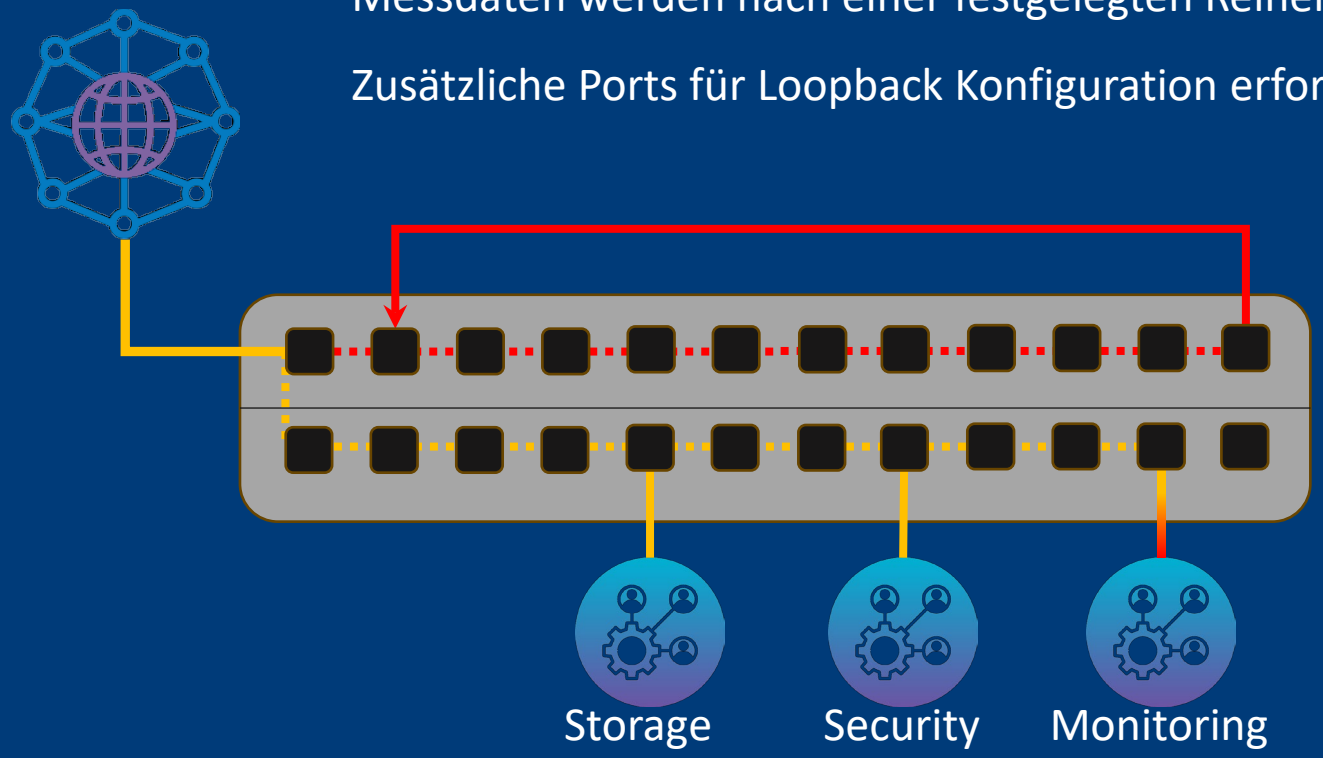
Herkömmliche PacketBroker

Messdaten werden nach einer festgelegten Reihenfolge verteilt.

Zusätzliche Ports für Loopback Konfiguration erforderlich.



Active | Rule Sets

- Device Status
- Port Management
- Statistics
- Traffic Management
- Authentication
- Administration

Rule Set

Delete Rule Sets | Export Rule Sets | Import Rule Set | Create Rule Set

Name	Description	Created By	Date Of Creation	Last Change
No Rule Sets available at the moment.				

- Admin
- Logout
- Collapse

Zusätzliche Features

Worauf kommt es an?

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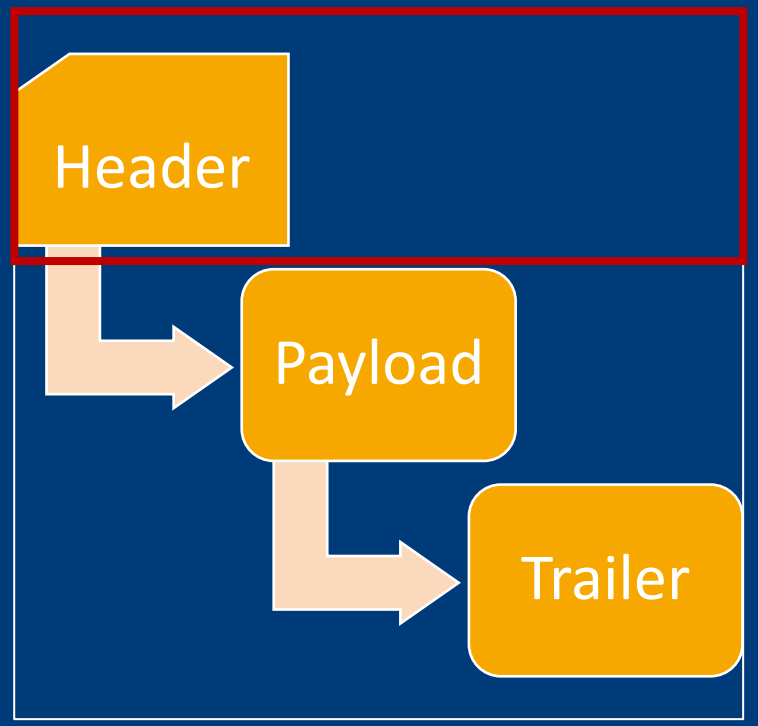
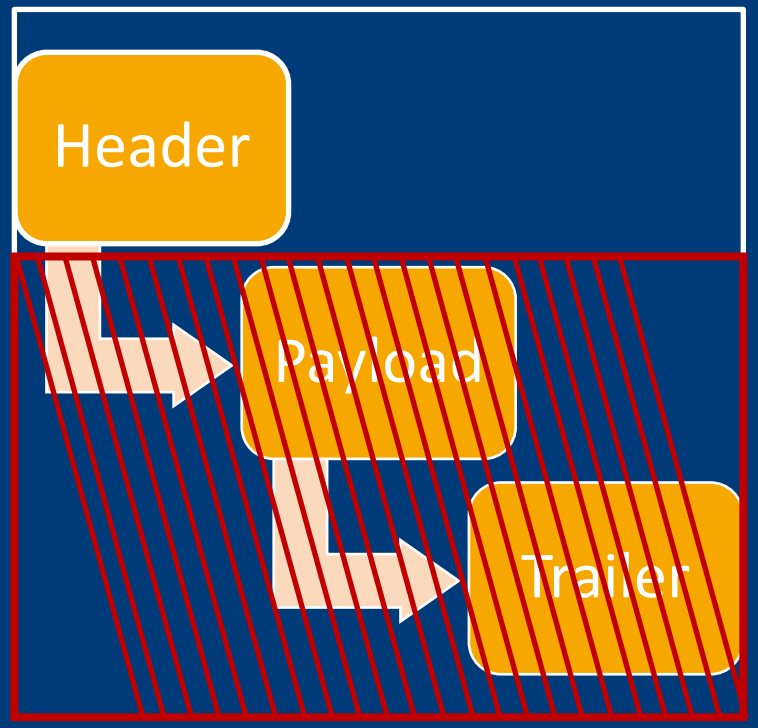
Header Stripping

«Bestimmte Protokoll-Header oder Labels werden entfernt, bevor das Paket an ein Tool/Analyzer weitergeleitet wird. (z.B. GRE, MPLS, VLAN, VXLAN)»



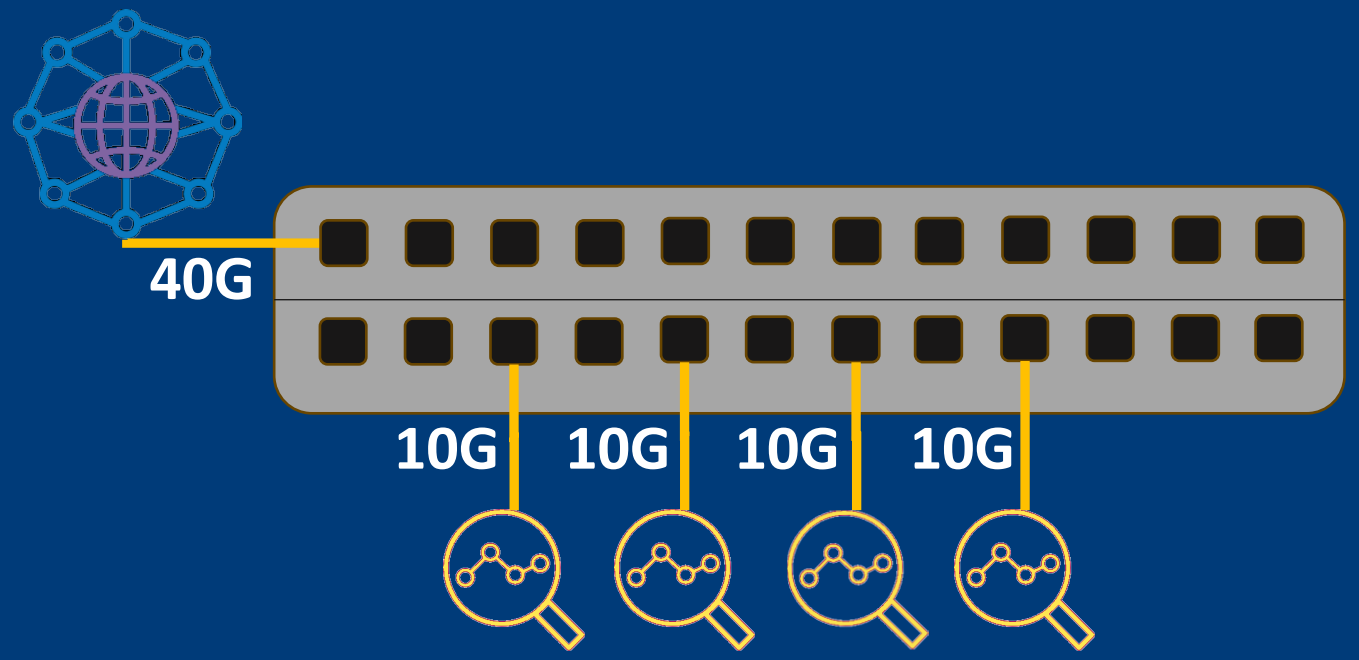
Packet Trimming

«Ein Teil des Pakets wird entfernt, bevor es an ein Tool / Analyzer weitergeleitet wird.»



Load Balancing

*«Messdaten werden **sessionbased** auf mehrere Ports verteilt.»*

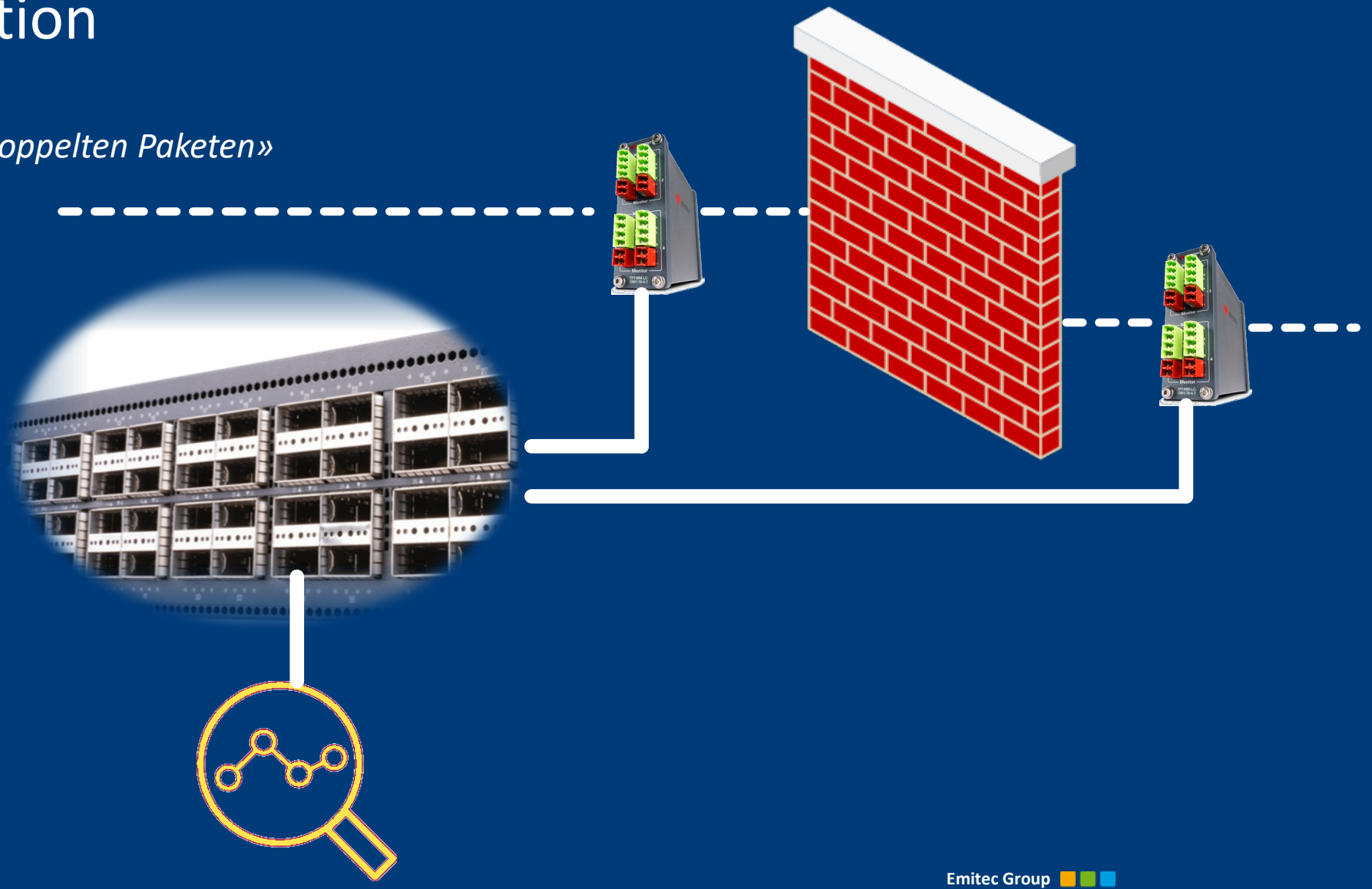


Tagging

«Hinzufügen von Kennzeichnungen innerhalb der Ethernet-Frames»

Deduplication

«Entfernen von doppelten Paketen»



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Wo ist das Limit?

Troubleshooting im 400G Netz mit einem 10G Analyzer?

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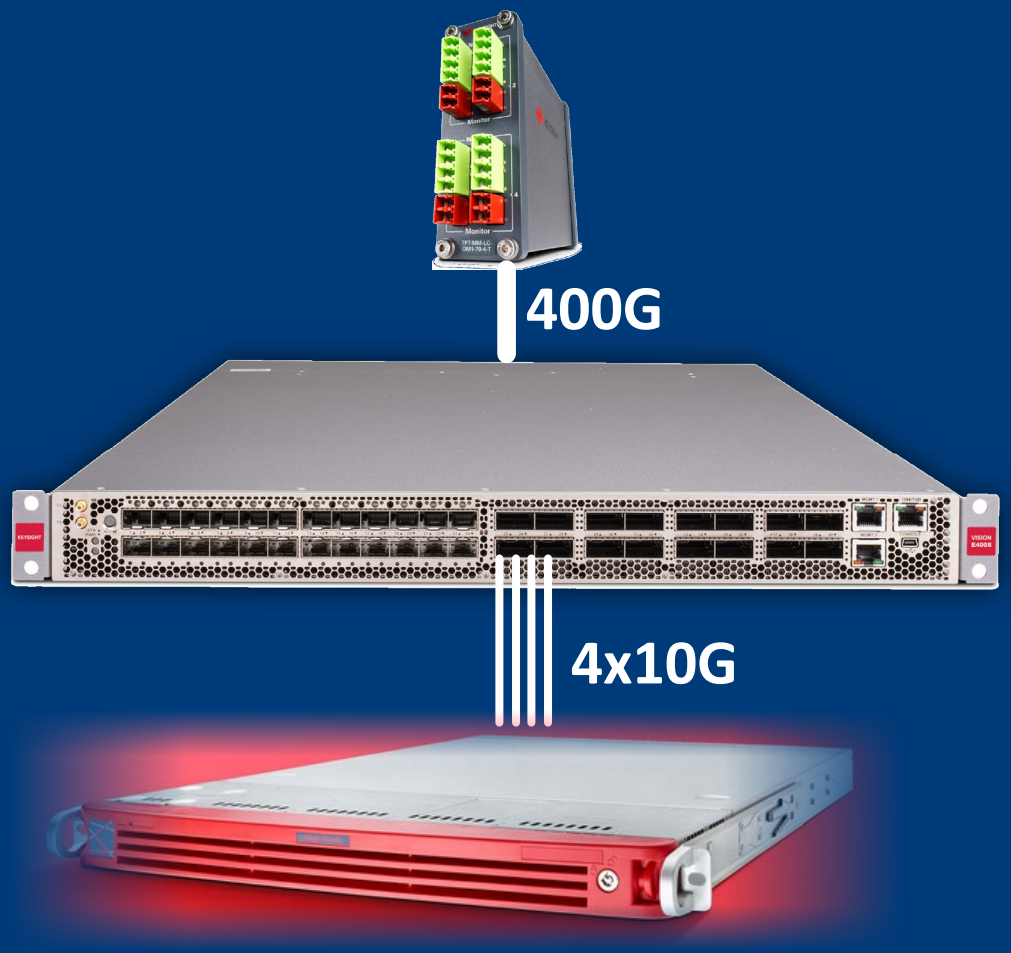

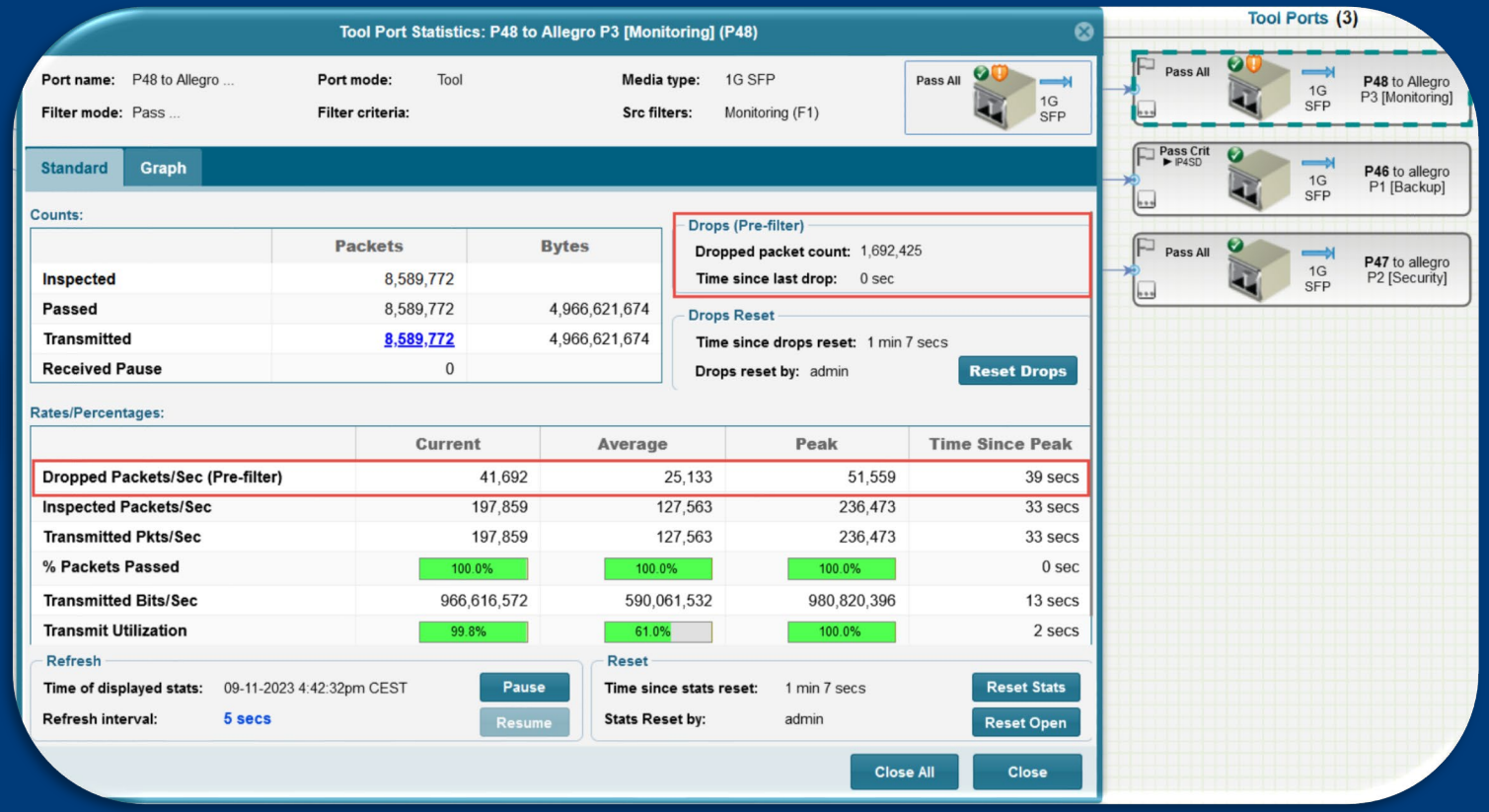

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