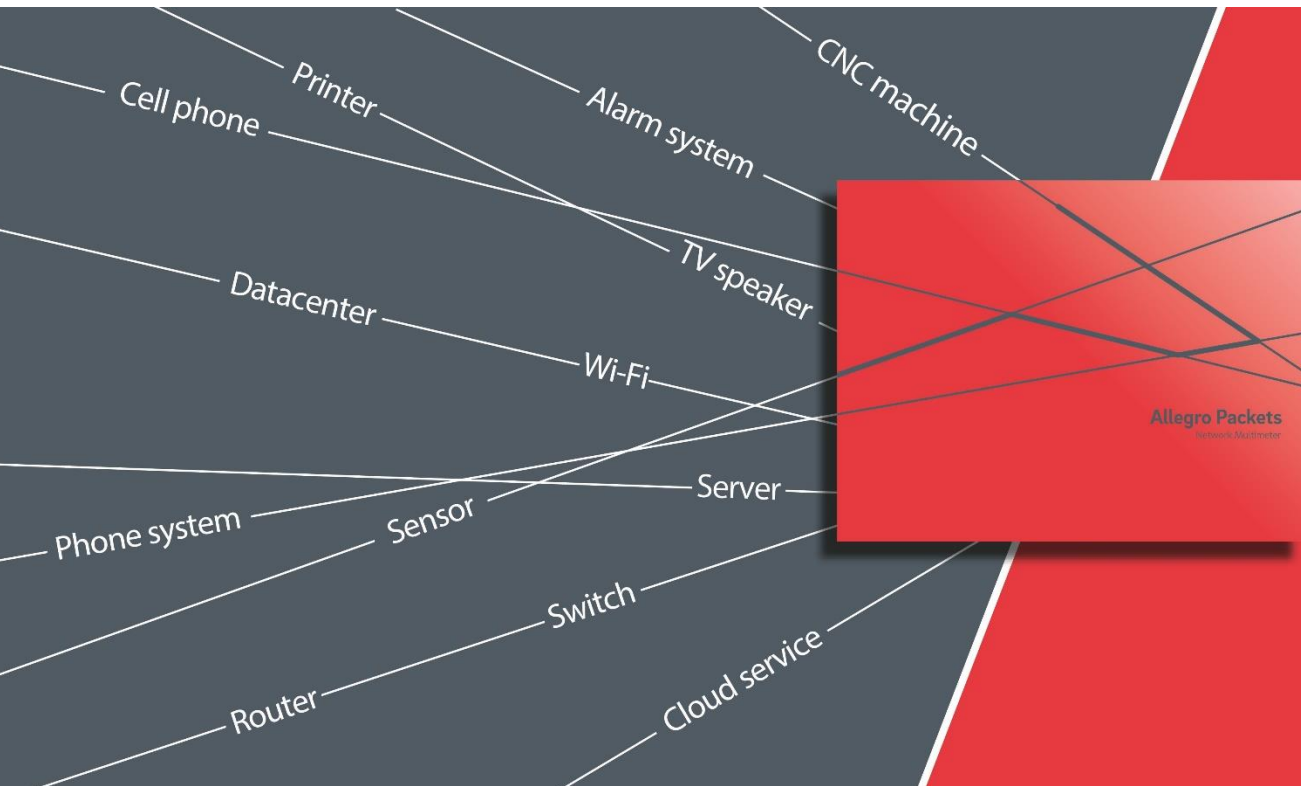


Allegro Packets

Network Multimeter



CINI4.0 Conference Day 2022 - 16/06, Gent



Real-time network statistics
immediately after installation

Comprehensive analyses
go a long way back in time

Easy pcap extraction
with the desired packages

About us

- Allegro Packets (Founded 2014)
- German based, head office in Leipzig
- Manufacturer of Allegro Network Multimeter
- Specialized IT/OT network troubleshooting & performance optimization equipment
- EU-based Development & Support
- MD's: Katrin Pflugfelder and Klaus Degner

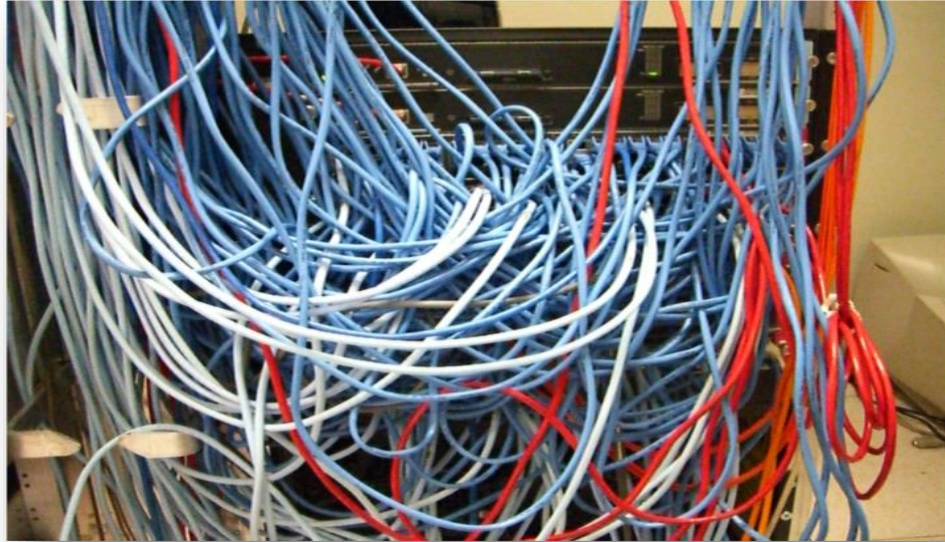


Common IT/OT Challenges

- Who and what is traversing my networks?
- Do we have any quality or performance issues?
- Is it the network, server, client or application?
- Are QoS, Vlans and Firewalls working as expected?
- What happened just before problem/downtime?
- How can I troubleshoot specific IT/OT protocol behavior?
- Can we significantly reduce time spent in Wireshark?

Network visibility is required.

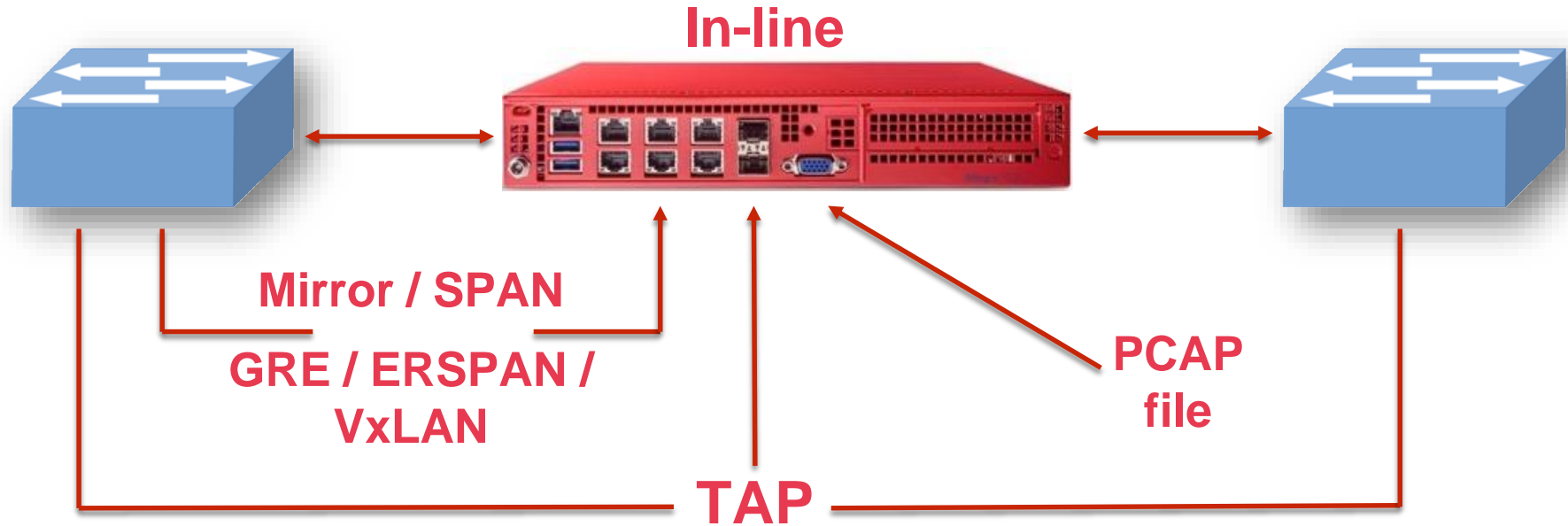
Finding the needle in this haystack?



Network visibility is required.

Network Visibility

Traffic-processing setups

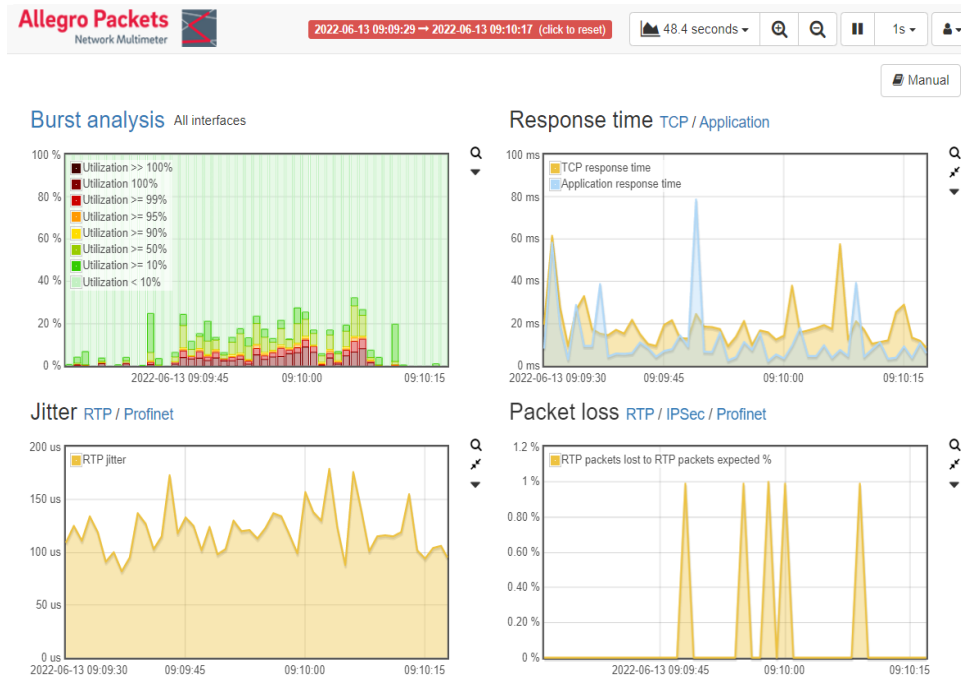


Network Analysis & Troubleshooting

High performance In-Memory Database

In-Memory Database (RAM)

- Traffic Metadata
- Traffic Statistics
- Presented in web-interface
- FAST!
- 1 ms graph resolution

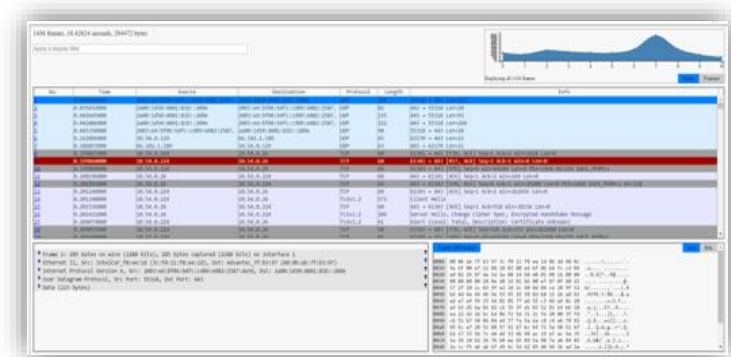


Network Analysis & Troubleshooting

Packet Ring Buffer

Packet Ring Buffer

- Storage device HDD/SSD
- Network traffic recording
- For traffic replay
- For selective pcap extract



Time stamp accuracy (relative / inter-packet)	Time stamp accuracy (absolute / to clock)
PTP-clock = < 20 μ s	PTP-clock = < 1 ms
GPS-card = < 10 ns	GPS-card = < 100 ns

GPS-card available as option for ANM models 1000 and up

Allegro Network Multimeter

IT/OT Troubleshooting made easy



- Product range **1G Portables up to 200G rack-mounts**
- Passive **packet-based visibility** into IT/OT networks
- Multi-Port / Multi-Point analysis
- Fast troubleshooting in Live traffic & Pcap files
- Millisecond display of **L2 - L7 statistics and data**
- Easily get to **pre-filtered PCAPs** for last-Mile analysis
- Pro-ACTIVE development & support
- Customer **FIRST** mentality

PROFINET IEC 104 OPC-UA

Standard on all Allegro Network Multimeters



Allegro Packets Network Multimeter

2019-11-19 03:25:02 → 2019-11-21 12:17:53 (click to reset) 2 days 8 hours 52 minutes 50.5 seconds

Profinet statistics

Overview Global stats Devices

Profinet and total traffic

Global Profinet RT errors

Link receive utilization on layer 1

Global jitter

Top sender

Address	Bytes	Frames	PCAP
IP: 192.168.96.142 MAC: 08.00.06.9a:26.37 (Vendor: SIEMENS AG)	9.75 MB	162.35 k	
IP: 192.168.96.21	5.17 MB	86.04 k	

Top receiver

Address	Bytes	Frames	PCAP
MAC: 01:0e:cf:00:00:00 (Name of station: Profinet multicast DCP) (Vendor: multicast address)	20.92 MB	347.62 k	
MAC: 00:a0:45:70:3e:c7	20.98 kB	244	

Left sidebar menu: Dashboard, Global Dashboard, Generic, L2 - Ethernet, L3 - IP, L4 - Transport, L7 - Application (Layer 7 protocols, SSL Statistics, HTTP Statistics, Response Time Analysis, SMB Statistics, SIP Statistics, NTP Statistics, **PTP Statistics**, **Profinet Statistics**, OPC-UA Statistics, IEC 60870-5-104 Statistics, FIX Statistics, RTP Statistics, Response time overview)

Allegro Packets

Industrial Customer Case



Leading Manufacturer of Industrial Switches

- Analysis tool for equipment/scenario testing
- Results processing via REST-API (automation)
- Context at time of PNIO alarms, ...
- Easily get to pre-filtered packets of interest
- Easy troubleshooting large (customer) PCAP-files

Reference customers of Allegro Packets



BITMARCK®



ROTENBURGER WERKE

cewe



arvato
BERTELSMANN



FESTO AG

LANXESS
Energizing Chemistry



coop



Thank you - Come visit our



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