



NEXTRAGEN
NEXT GENERATION TESTING

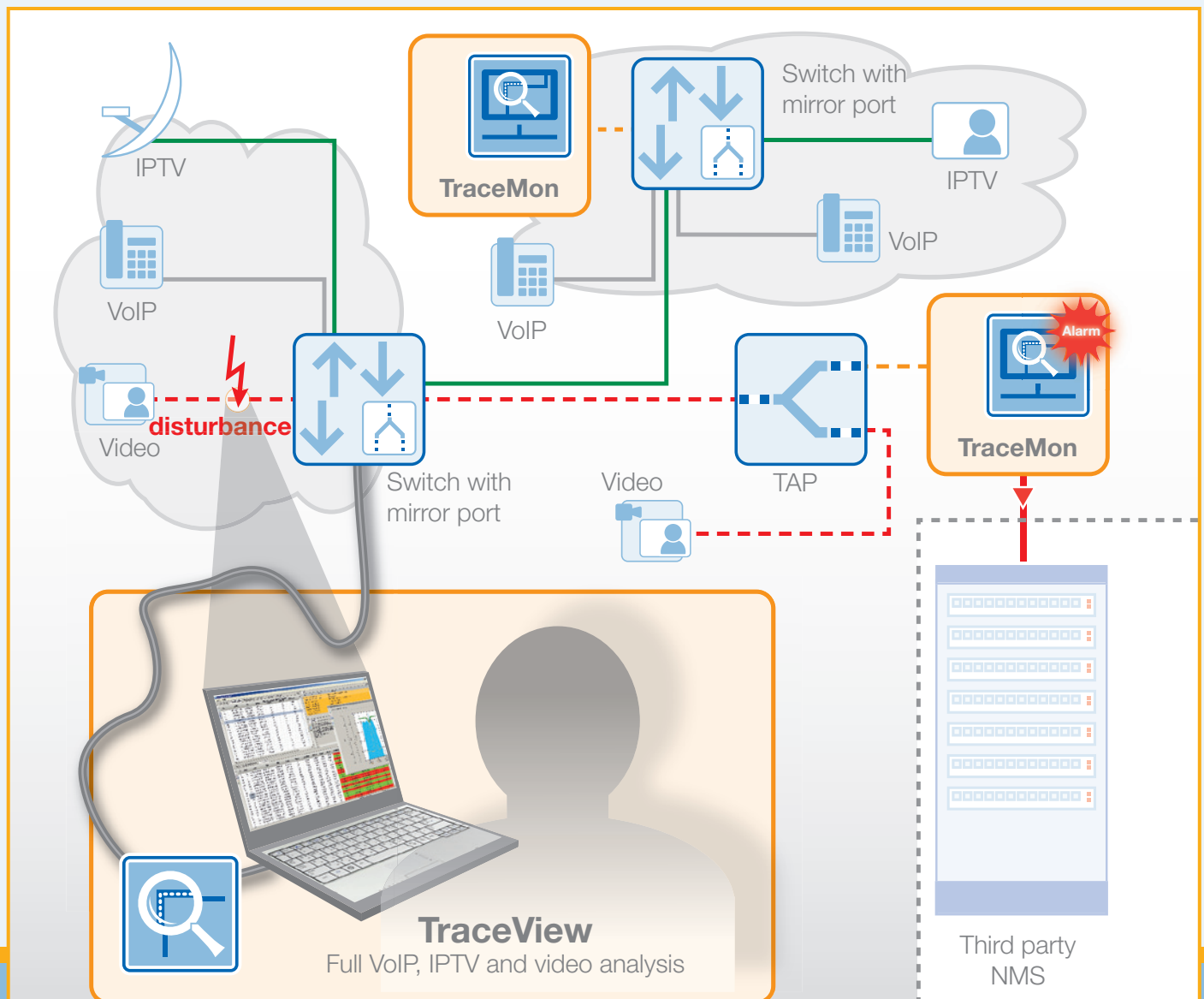
TraceView

VoIP, video and IPTV analysis

- **Clear** overview of the VoIP, video and IPTV traffic
- **Quality measurement and quality evaluation at network nodes**
- **Compliance** with data protection guidelines (intercepting RTP streams is not possible)

... make **TraceView** the ideal choice for

- Troubleshooting



TraceView – Optimised network configuration, network performance and network quality

TraceView is optimised for VoIP, video and IPTV applications. Designed with the user in mind, TraceView offers numerous additional functions for triple play services, such as connection lists, presentation of quality parameters, etc.

TraceView analyses and reports on the QoS of the captured video/ IPTV streams and VoIP connections. Effective

management tools, such as evaluation and decoding of RTP sessions and quality-parameter reporting, allow the technician to view the current VoIP, video and IPTV performance from any service notebook.

TraceView measures VoIP network parameters, such as jitter, packet loss, etc. but also MOS values based on the E-model.

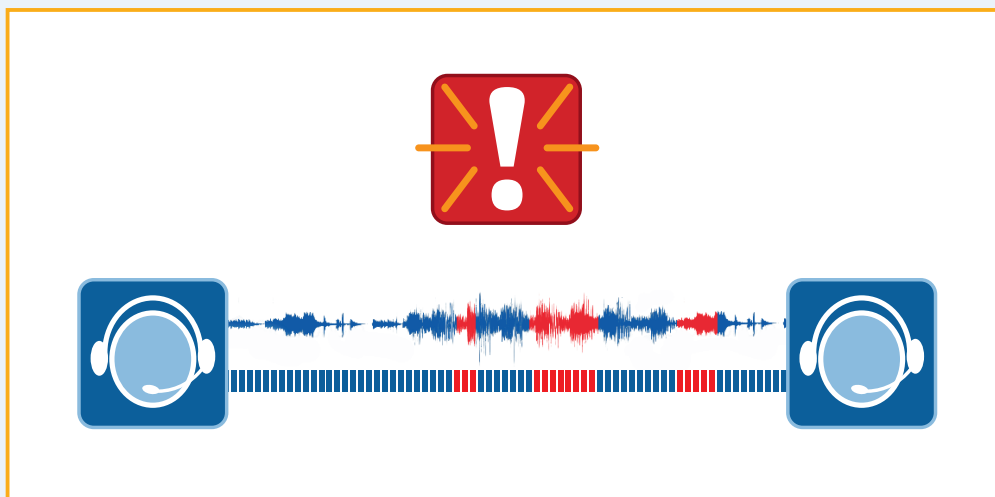


■ Troubleshooting

Quick and effective troubleshooting and restoration of the quality of service

Benefits

- Ensure operational reliability and optimise service procedures
- Minimise response and recovery times during performance bottlenecks
- Reduce costs for system restoration during field service



Analysis of VoIP, video and IPTV applications provides for professional and cost-effective troubleshooting of IP infrastructures

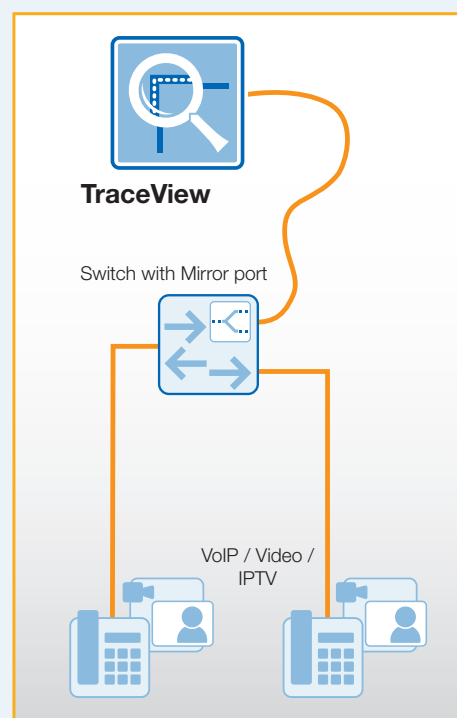
TraceView – Quick and efficient localisation of network problems

TraceView is ideal for the identification and localisation of network problems:

- **Poor voice/ video/ IPTV quality** (interruptions, crackles, noise distortion, video fragments, etc.)
- **Connections which cannot be established** (configuration problems, signaling failures, etc.)
- **Lost connections**

TraceView – Reliable measurement results of the actual network performance

- TraceView is a VoIP, video and IPTV analysis tool which can be used without detailed protocol knowledge
- Data analysis is carried out during capture
- Deactivation of interception options comply with data protection requirements
- Recorded data stored for later use
- Data captured via mirror ports or TAPs (Test Access Point)
- Possibility to define various filters



TraceView – Optimised network performance analysis

Nr	Quelle	Ziel	vLan	SSRC	Codec	Pakete	Bytes	1. Packet	Dauer	Packet Loss	Jitter (min / mean / max) / ms	R / E
6	192.168.1.6:8000	192.168.1.3:8000		553e5700h	G.729 Audio	825	16500	11:26:35.355175	0d 00h 00m 16s	0/0	0.350 / 0.485 / 0.606	82.20 / 4.10
7	192.168.1.6:8000	192.168.1.3:8004		238d4f6bh	G.723 Audio	322	7728	11:27:13.252920	0d 00h 00m 10s	17/0	0.115 / 0.397 / 0.742	58.50 / 3.02
8	192.168.1.3:8004	192.168.1.6:8000		65a248ch	G.723 Audio	324	7776	11:27:13.702703	0d 00h 00m 09s	0/0	0.247 / 0.393 / 0.716	78.20 / 3.95
9	192.168.1.3:8000	192.168.1.6:8000		a2109b3h	G.726	566	45280	11:27:45.451848	0d 00h 00m 11s	0/0	0.433 / 0.488 / 0.534	86.20 / 4.24
10	192.168.1.6:8000	192.168.1.3:8000		64461804h	G.726	566	45280	11:27:45.472897	0d 00h 00m 11s	37/0	0.003 / 0.265 / 0.871	9.00 / 1.03
11	192.168.1.6:8000	192.168.1.3:8004		571e6dd2h	GSM	124	16368	11:28:34.215472	0d 00h 00m 09s	0/0	0.012 / 0.148 / 1.064	88.20 / 4.29

- Evaluation of RTP session through R-factor/ MOS according to the E-model (ITU-T Rec. G.107)
- Evaluation of video streams according to the VS model (MOS)
- Management reports printed in PDF
- Video playback of ITPV streams
 - TR 101 290
- Audio playback of all codecs
- Graphical output of measured quality parameters
 - Tables
 - Graphs
 - Traffic light function
- Detailed decoding of RTP sessions and IPTV streams



TraceView | Features

VoIP codecs

- G.711 a-/μ-law
- G.721
- G.723.1
- G.729a
- GSM
- iLBC

Video codecs

- MPEG 4
- H.263
- H.264

Measured network parameters

- DeltaT (min/avg/max)
- Jitter (min/avg/max)
- Jitter RFC 3550
- Packet loss
- Delay
- Reordered packets
- Duplicated packets

Evaluation models

- E-model (ITU-T Rec. G.107)
 - R-Faktor / MOS CQE
- VS-model
 - MOS

IPTV protocols

- MPEG 2 TS
 - RTP
 - UDP

VoIP protocols

- RTP
- RTCP
- SIP
- SDP
- H.323
- MGCP
- STUN

Static jitter buffer

PCAP export and import

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