



NEXTRAGEN
NEXT GENERATION TESTING

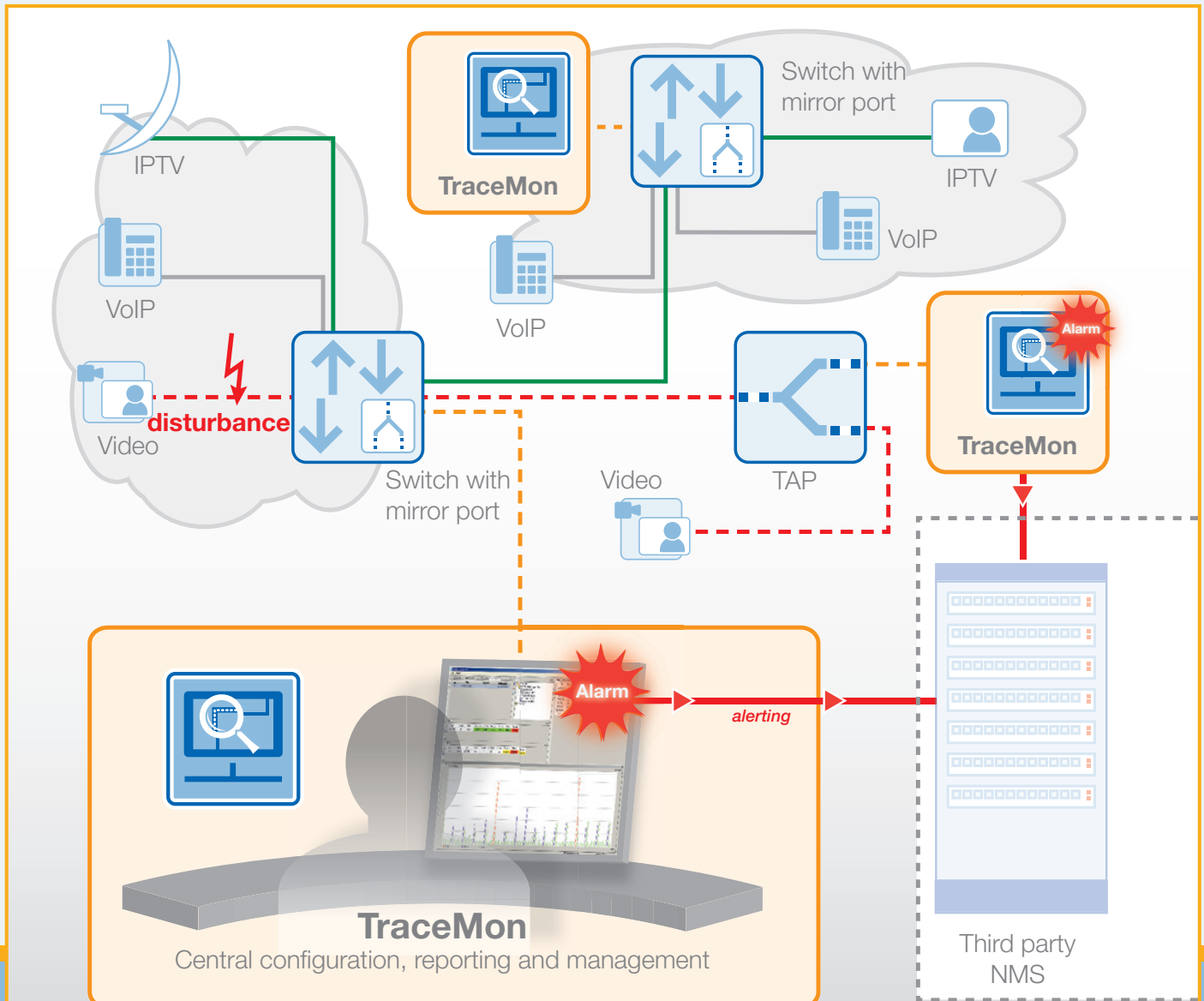
TraceMon

VoIP, video and IPTV monitoring solution

- **Monitoring of network qualities** for VoIP, video and IPTV applications
- **Active alarming**
- **SLA reporting**
- **Compliance with data protection guidelines** (interception option not available)

... make **TraceMon** the best choice for

- Monitoring
- Troubleshooting



TraceMon – Supported network configuration and guaranteed quality performance

TraceMon is a passive long-term monitoring solution to support the smooth running of VoIP, video and IPTV applications in IT infrastructures. TraceMon monitors all components involved in the communication process to ensure that they move within the required network parameters.

TraceMon employs internationally accepted evaluation methods to analyse VoIP and video streams in IP networks. It assists the technician in evaluating and managing the network performance through extensive reports and detailed assessments of speech and video qualities (QoS).

TraceMon's alarming puts the network administrator into charge. Notifications and alarms are sent out automatically when threshold values are exceeded. In addition, TraceMon delivers the necessary information for SLA reporting to fully control and administer the agreed network performance levels.

TraceMon is a reliable high performance software solution designed for long-term monitoring of VoIP, video and IPTV applications, while offering exceptional user-friendly features and providing key information about the network performance. Armed with this information you can make well informed decisions when it matters most.



■ Monitoring

Permanent and standardised monitoring of the quality of service

Benefits

- Provide service continuity to secure customer satisfaction
- Avoid network problems and quality impairments
- Save on follow-up costs
- Ensure compliance with SLAs

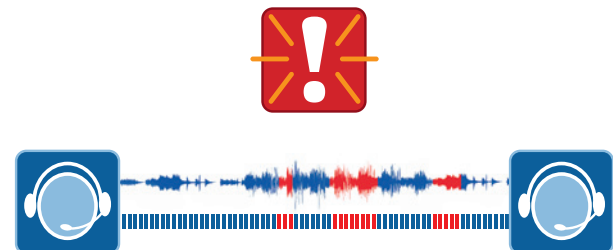


■ Troubleshooting

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 during field service



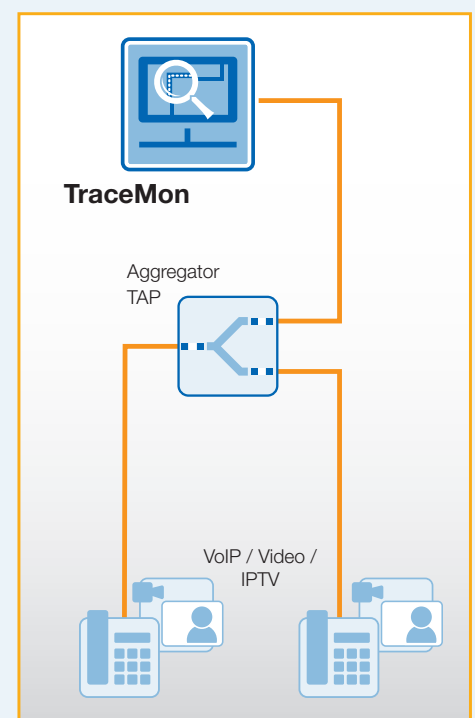
TraceMon – Quick and efficient localisation of network problems

TraceMon is the ideal solutions to:

- **Secure and report SLAs**
- **Detect and identify sources of errors** in VoIP, video and IPTV applications
- **Actively alert** when measured values fall below user-defined threshold values
- **Monitor and evaluate the entire** VoIP, video and IPTV traffic

TraceMon – Reliable measurement results of the actual network performance

- TraceMon is a VoIP, video and IPTV monitoring tool which can be operated without detailed protocol knowledge
- All VoIP, video and IPTV connections can be monitored at one network node
- Measured data is stored; Raw data is not stored and the interception option is deactivated (no playback of VoIP calls or video streams)
- Data are captured via mirror ports or TAPs (Test Access Point)
- Possibility to evaluate other recorded trace files (*.pcap)
- Remotely configurable
- Accurate documentation and reporting of SLAs



TraceMon – Optimised network performance analysis

Nr.	Verb.	Quelle	SSRC	Codec	Pakete	Startzeit	Endzeit	Paketverlust	Jitter min / avg / max	DeltaT min / avg / max	MOS-CQF (E-Modell) empf. JB
5266	2629	192.168.90.116:8024	0x20E558FB	G.711 a-Law	1004	15:46:08	15:46:28	0.00%	0.0 / 0.1 / 5.2	14.8 / 20.0 / 25.2	4.41
5267	2629	192.168.90.117:8000	0x472B0303	G.711 a-Law	1107	15:46:08	15:46:29	4.16%	0.0 / 9.0 / 516.9	0.0 / 18.5 / 76.4	3.04
5268	2630	192.168.90.116:8026	0x2EFD038D	G.711 a-Law	1004	15:46:09	15:46:29	0.00%	0.0 / 0.1 / 4.7	15.3 / 20.0 / 24.6	4.41
5269	2630	192.168.90.117:8004	0x5FC72473	G.711 a-Law	1062	15:46:09	15:46:29	4.58%	0.0 / 9.6 / 516.9	0.0 / 18.9 / 92.1	3.02
5270	2631	192.168.90.117:8006	0x05383442	G.711 a-Law	1082	15:46:10	15:46:30	2.35%	0.0 / 11.1 / 516.9	0.0 / 18.5 / 82.0	2.92
5271	2631	192.168.90.116:8000	0x30581A48	G.711 a-Law	1003	15:46:10	15:46:30	0.00%	0.0 / 0.1 / 4.9	15.1 / 20.0 / 24.8	4.41
5272	2637	192.168.90.117:4002	0x4171305C	G.711 a-Law	1105	15:46:17	15:46:37	3.91%	0.0 / 14.1 / 516.9	0.0 / 18.4 / 64.3	2.50
5273	2637	192.168.90.116:8010	0x54077737	G.711 a-Law	1003	15:46:17	15:46:37	0.00%	0.0 / 0.1 / 4.9	15.1 / 20.0 / 24.9	4.41
5274	2638	192.168.90.116:8030	0x0BF25A4F	G.711 a-Law	1004	15:46:18	15:46:38	0.00%	0.0 / 0.1 / 5.0	15.0 / 20.0 / 25.0	4.41
5275	2638	192.168.90.117:4004	0x0BD24063	G.711 a-Law	1068	15:46:18	15:46:38	2.47%	0.0 / 8.7 / 516.8	0.0 / 19.1 / 64.1	3.14

- Evaluation of RTP session through R-factor/ MOS according to the E-model (ITU-T Rec. G.107)
- Graphical output of measured quality parameters
 - Tables
 - Graphs
 - Traffic light function
- Management reports printed in PDF
- Alerts given when values fall below thresholds
- Evaluation of video streams according to the VS model
- Evaluation of IPTV streams according to TR 101 290



TraceMon | Features

VoIP codecs

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

Measured network parameters

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

IPTV protocols

- MPEG 2 TS
 - UDP
 - RTP

Video codecs

- H.263
- H.264

Evaluation models

- E-model (ITU-T Rec. G.107)
 - R-factor / MOS CQE
- TR 101 290

VoIP protocols

- RTP
- RTCP
- SIP
- SDP

Static jitter buffer

PCAP import

NEXTRAGEN GmbH

Lise-Meitner-Str. 2
24941 Flensburg
Germany



Tel: +49 461 90414440
Fax: +49 461 90414449

info@nextragen.de
www.nextragen.de

MOESARC TECHNOLOGY UK Ltd
ProToCol House
Huish Cross
South Brent
DEVON
TQ10 9NE
Tel 01962 881878
www.moesarc.co.uk