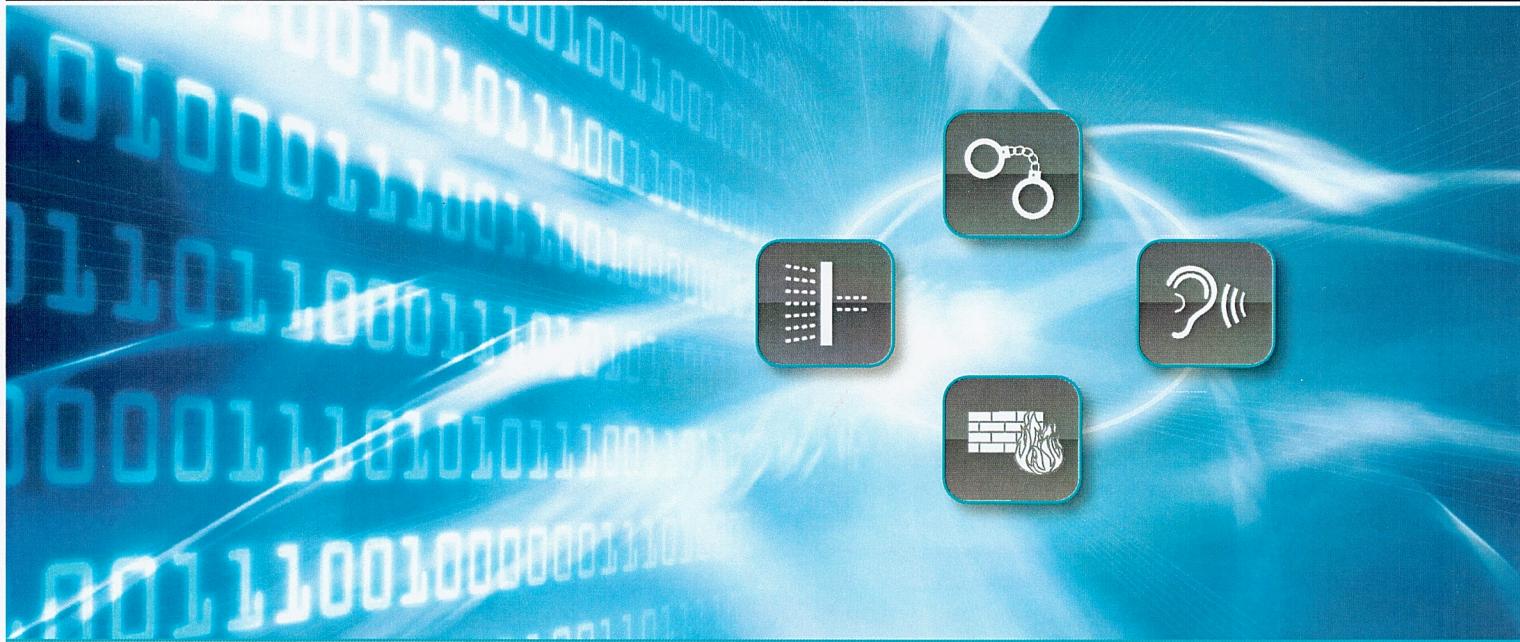


1 - 100 Gbps Interception Probe



- ▶ OEM IP network traffic interception probe
- ▶ Support for multiple 1GbE - 100GbE links
- ▶ Line-rate L2, L3 and L4 packet processing
- ▶ Voice over IP and E-mail interception
- ▶ Easy integration with 3rd party systems
- ▶ Interception configuration via ETSI, RESTful API
- ▶ HTTPS, SFTP, ETSI handover interfaces
- ▶ High-speed, standard and virtual models

INTRODUCTION

It is a common practice in communication networks that active network devices can be used to collect data for specific network applications. Typical examples are MSC elements of mobile networks or BRAS routers in ADSL architecture. Such approach is not always applicable as the active elements of the network are not built with the aim of data collection and they very often lack features or performance to cover the needs of specific network applications like lawful interception. Therefore, it is beneficial to use dedicated interception probe especially in high-speed computer networks.

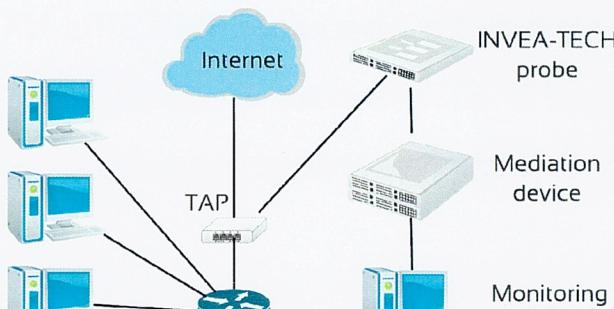
DESCRIPTION

Computer networks vary in technologies, speed and architecture, therefore INVEA-TECH company offers a wide range of interception probes processing multiple 1 Gbps to 100 Gbps links. Standard probes are built on commodity hardware, while high-speed models are based on hardware accelerators powered by FPGA technology. Hence they are capable of wire-speed packet processing without any packet loss. To support virtualized environment virtual appliances are available as well.

Configuration of interception is done via standardized ETSI interface or RESTful API. Interception criteria are:

- ▶ MAC address
- ▶ Radius username
- ▶ IP address
- ▶ TCP/UDP port
- ▶ IP range
- ▶ SIP URI
- ▶ VLAN
- ▶ Email address

Intercepted packets are either saved locally, sent to mediation device, to SFTP server or directly to law enforcement agency via ETSI handover interface.



Example of probe deployment

FEATURES

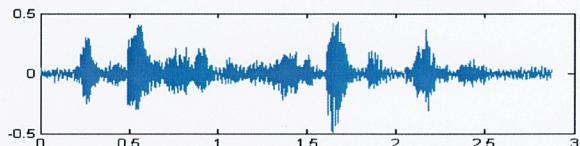
- ▶ OEM IP network traffic interception probe
- ▶ Support for multiple 1/10/40/100GbE ports
- ▶ L2, L3, L4 header filters, DPI (email, voice, etc)
- ▶ Wire speed traffic processing guaranteed
- ▶ Non-intrusive installation into target network
- ▶ Easy integration with 3rd party systems

USE CASE1: LAWFUL INTERCEPTION

Mobile operator starts a new service - ADSL internet. According to law, this operator has to implement lawful interception solution in this new IP network. The operator already has GSM Lawful Interception system installed. This system includes mediation and monitoring center. INVEA-TECH probes are used on the 10 Gbps+ backbone IP network as the probes are easily integratable into existing infrastructure.

USE CASE2: VOIP CALL QUALITY CHECK

Customer service center needs to check the quality of VoIP calls, which requires recording content of the calls. INVEA-TECH probes are deployed at ten different geographical locations. These probes are configured from central point and data is stored in an SFTP server, where the calls are available to quality control team to perform deep analysis.



EXAMPLES OF PROBE APPLICATIONS

- ▶ Packet sniffing
- ▶ Lawful interception
- ▶ VoIP calls quality check
- ▶ Network monitoring and troubleshooting

ORDERING INFORMATION

Please contact INVEA-TECH for pricing and additional information about this product.