

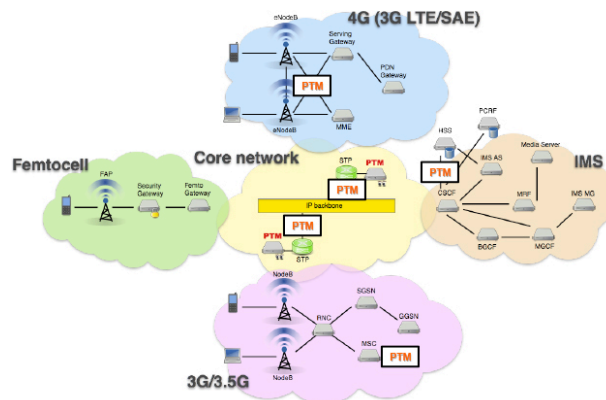
PTM v5.3

Today, the security situation of **SS7** and **SIGTRAN** is identical to the state of TCP/IP networks security in 1994. The **LTE** landscape has also a large number of potential vulnerabilities. Few telecom companies have a real understanding of the present and emerging risks for their Telecom Signaling network from new connections being deployed between their Core Network and the external world. Such interconnection is growing more and more thanks to the Internet and convergent services, Femto cells, 3G and even further services such as IMS and LTE. Today, with **PTM v5.3 (P1 Telecom Monitor)**, P1 Security allows Telecom and Mobile operators to proactively monitor the security of their Core Network and signaling perimeters.

A TELECOM NETWORK SECURITY MONITOR

P1 Telecom Monitor (PTM) is an Intrusion Detection System (IDS) specifically designed for Signaling Core Networks. PTM enables tracking and reduction of signaling network misuse, providing a dashboard of frauds and attacks.

P1 Telecom Monitor is integrated into P1 Security Telecom Security Life Cycle (TSLC) along with P1 Telecom Fuzzer (PTF), P1 Telecom Auditor (PTA) & P1 Vulnerability Knowledge Base (VKB) to provide a complete signaling security framework.



Key Features

- Telecom-specific protocols (SS7 MAP & Diameter);
- Telecom-specific attack detection (HLR Request alert, scanning detection, illegal incoming messages, spoofing detection...);
- SIEM integration;
- Vulnerabilities updates;
- Web UI;
- Multi-probes capability;
- Multi-source monitoring capability;
- TDM and ATM legacy transport compatible.

(List subject to changes following ongoing development)

Key Benefits

- P1 Telecom Monitor gives a monitoring overview on Telecom signaling networks.
- P1 Telecom Monitor gives reactive monitoring capabilities on signaling issues & attacks.
- Telecom and Mobile Operators can scan and monitor their signaling perimeter as they do for their Internet and IP perimeters, detecting vulnerabilities before hackers, fraudsters and intruders.
- Risks & Fraud-related costs reduced up to 75%.

(List subject to changes following ongoing development)

Learn more about P1 Security products & services.
Contact us at contact@p1sec.com.
Visit us online at www.p1sec.com.

PTM DEPLOYMENT

PTM is delivered as a **VM instance**, interconnecting with existing SIEM or with PTM **web UI console**. SS7 TDM traffic can be monitored through dedicated Hardware.

P1 Security experts are available to help interpret the results if requested.

SIEM INTEGRATION

PTM exports generated events in open format and can feed any existing SIEM system: **Syslog**, defined settings in **admin panel** of PTM OAM Web UI.

PTM has been **successfully integrated in multiple SIEM environments** like Splunk.

PTM can be integrated into **any other existing SIEM** system.

<p>Protocols coverage</p> <ul style="list-style-type: none">• Signaling, SIGTRAN: SCTP.• SS7, SIGTRAN: M2PA, M3UA.• SS7: SCCP, TCAP, MAP, INAP, CAMEL, ISUP.• LTE, IMS: Diameter base.• LTE, LTE Roaming: Diameter S6a.• LTE Geolocation: Diameter SLg, SLh. <p>(List subject to changes following ongoing development)</p>	<p>PTM NG (PTM v5.3): the 3rd Generation PTM</p> <p>Completely redesigned to challenge the most up-to-date contemporary technologies, PTM NG is inline with the International standards.</p> <p>PTM NG offers a complete coverage of all the messages featured in GSMA categories 1, 2 & 3, as well as some more specific vulnerabilities.</p>
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P1 SECURITY

P1 Security has **a recognised leadership** in Telecom and Mobile Security, based on **innovative products & cutting edge expertise**: PTA (P1 Telecom Auditor), a telecom-specific vulnerability scanner, used to scan Access & Core Network Elements for SS7/SIGTRAN & LTE/Diameter protocols; PTM (P1 Telecom Monitor), a telecom-specific IDS and monitoring system (IPS in Beta testing); PTF (P1 Telecom Fuzzer), a telecom protocols fuzzer, used to test the robustness of specific Network Elements; P1 VKB (Vulnerability Knowledge Base), an up-to-date database in Telecom vulnerabilities & threat information; Threat Intelligence through the converged use of PTM & VKB and their integration into a TSOC (Telecom SOC). P1 Labs, the R&D branch of P1 Security, is leading the SS7map project (**ss7map.p1sec.com**), bound to investigate SS7 risks of network infrastructure's exposure and subscribers' privacy leaks.

*P1 Security is a **Vendor independent**, neutral Company with established references in Europe, United States, Africa, Middle East, Pacific and Asia.*



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