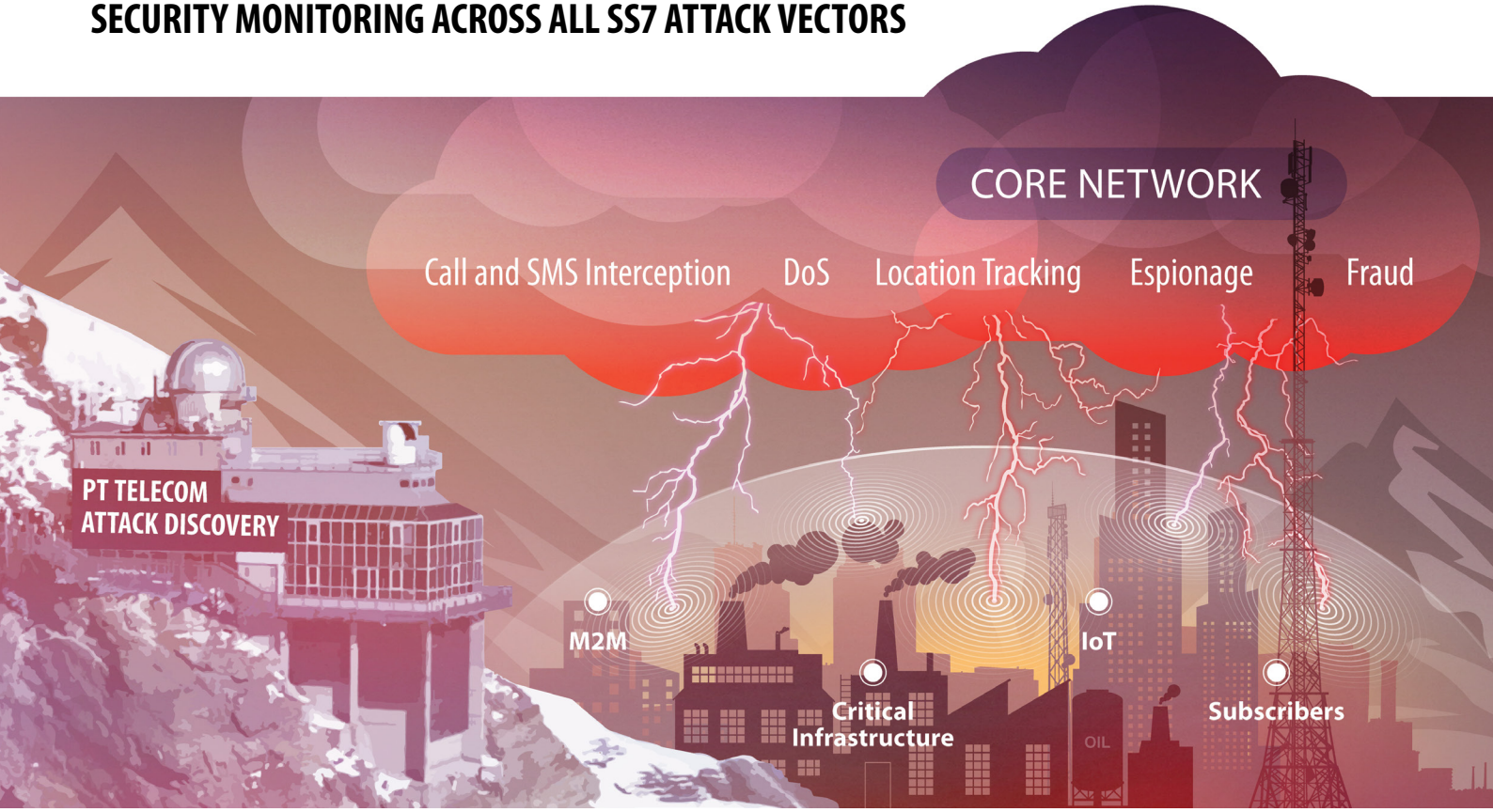
# PT TELECOM ATTACK DISCOVERY™

## SECURITY MONITORING ACROSS ALL SS7 ATTACK VECTORS




### BUSINESS BENEFITS

- Upgrade your awareness to manage security risks.
- Automate security operations to keep costs down.
- Perform faster incident investigation and response to minimize damage.
- Benefit from investing in a cost-effective solution.
- Receive expert support directly from acknowledged vendor.
- Protect your brand and reputation.

GSMA™

Associate Member

Telecom operators control critical infrastructure, attacks on which can be devastating and far-reaching. Yet despite years of warnings, extensive research by Positive Technologies experts shows that every single 3G, 4G (LTE), and 5G network is exploitable and can fall victim to cyber-attacks.

Fundamental flaws in signaling protocols—SS7 and Diameter—allow an attacker to intercept calls, track subscriber locations, carry out fraud, and cause denial of service. Back in 2015, on assessed SS7 networks Positive Technologies experts were successful in 77% of attempts to obtain sensitive data, 67% of attempts to perform fraud, and 80% of attempts to interrupt operations.

In addition, in 2016, we demonstrated that next-generation 4G and 5G networks built on the Diameter protocol have the same flaws and vulnerabilities as their SS7-based predecessors. Even worse, exploits that can compromise subscriber privacy and turn a cell phone into an open book are now available not only to nation-state intelligence services, but to low-skilled hackers as well.

### REINFORCE YOUR CYBERSECURITY POSTURE

PT Telecom Attack Discovery provides security monitoring, up-to-the-minute detection of anomalous activity, and protection of the signaling network perimeter. Rich analytics and reporting capabilities enable telecom operators to act immediately and respond to threats as they occur. Deploy PT Telecom Attack Discovery to get ahead of hacker attacks before they threaten your core network and subscribers.

PT Telecom Attack Discovery combines the power of a best-in-class signaling intrusion detection system with business intelligence (BI) module, which turns security monitoring and signaling traffic analysis into a clear and easy process.

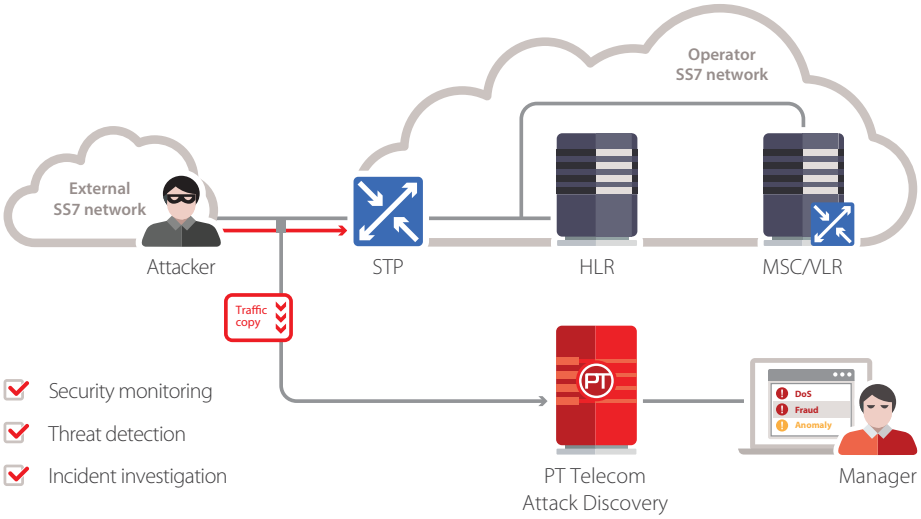
## GET AHEAD OF CYBERATTACKS

PT Telecom Attack Discovery allows identifying all forms of malicious activity, including:

- Call and SMS interception
- Subscriber location tracking
- Fraud, including manipulation of USSD codes and billing system
- DoS targeting a subscriber or network segment
- Sensitive data leakage

## PT TELECOM ATTACK DISCOVERY KEY FEATURES

- **Enhanced visibility for early threat detection.** Real-time signaling monitoring is essential for enhancing visibility of the telecom core network and ensuring immediate threat detection. Our experts constantly update the PT Telecom Attack Discovery knowledge base with new attack patterns. Malicious activity and attempts to violate security policies are detected in their early stages with exceptional accuracy.
- **Advanced analytics for rapid incident response.** PT Telecom Attack Discovery provides rich analytics and reporting with a deep drill-down option, in order to start taking immediate action and respond to threats as they occur. PT TAD displays aggregated data on comprehensive dashboards, and generates reports with actionable intelligence, so you can quickly mitigate consequences and minimize damage.
- **Intuitive navigation and forensics.** When a large number of attacks is detected, you need enhanced mechanisms for intuitive navigation to perform real-time or retrospective incident investigation. PT Telecom Attack Discovery provides filtering, grouping, and sorting capabilities for instantly searching through attacks. Besides attack time, source, and target, PT Telecom Attack Discovery enriches data with GSMA threat category, attack type, severity, and potential impact.




- **Maximized efficiency of other security measures.** PT Telecom Attack Discovery helps to evaluate how well your other security countermeasures are working and provides valuable information for improving their performance. For example, it simplifies management of filtering rules and provides insights on how to fine-tune home routing or set up a signaling firewall to block specific attacks.
- **Seamless operation.** To detect attacks against a telecom operator, PT Telecom Attack Discovery needs only a copy of traffic. It performs thorough analysis in the background, capturing both incoming and outgoing traffic flows, with zero impact on core infrastructure and network services. Critical operations and processes are not affected or interrupted.

## About Positive Technologies

Positive Technologies is a leading global provider of enterprise security solutions for vulnerability and compliance management, incident and threat analysis, and application protection. Commitment to clients and research has earned Positive Technologies a reputation as one of the foremost authorities on Industrial Control System, Banking, Telecom, Web Application, and ERP security, supported by recognition from the analyst community. Learn more about Positive Technologies at ptsecurity.com.



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info@ptsecurity.com ptsecurity.com