The Trend Micro® Smart Protection Network™ continuously monitors and collects threat data from across the globe. We employ advanced detection analytics to immediately stamp out attacks before they can harm you. And the same accelerated cloud security powers all of our products and services, protecting millions of businesses and users around the globe.

Our threat researchers and data scientists use the latest techniques to analyze data and identify threats in real time. This is achieved through augmented cyber intelligence—which combines the focused findings from artificial intelligence (AI) and machine learning with knowledge from threat experts who are constantly researching the latest tactics, techniques, and procedures (TTPs) used by cybercriminals. We rapidly and accurately collate this wealth of global threat intelligence using automated security analytics to customize protection against the threats that are most likely to impact you.

To maintain this immense scale of threat protection, we’ve created one of the world’s most extensive cloud-based infrastructures, delivering automatic correlation of threats across multiple security layers for customized protection, giving you threat visibility across platforms, security layers, and users globally. The Smart Protection Network, powered by XGen™, is an integral part of a connected threat defense, enabling Trend Micro products to use a cross-generational blend of threat defense techniques to stop threats as they are discovered.

**HOW IT WORKS**

The Smart Protection Network is segmented into three distinct areas: collection, identification, and protection.

**COLLECT IN VOLUME**

The Smart Protection Network collects terabytes of threat data every day through a global network of honeypots, submissions, feedback loops, and web-crawling technologies. We combine this data with insights from customers, partners, and our own threat researchers to provide greater visibility into the nature of attacks.

The collected data includes an ever-growing volume of threat vectors, including threats associated with URLs, IPs, domains, files, exploits and vulnerabilities, network traffic, command and control, cybercriminal undergrounds, threat toolkits and techniques, and mobile apps.

With threat actors located in every corner of the world, and billions of new, unique threats emerging each year, only the Smart Protection Network is designed to collect the massive volume of data needed to discover and protect from the ever-increasing flow of attacks.

**DETECT AND IDENTIFY**

We pioneered the use of big data analytics for threat intelligence when we started building the Smart Protection Network in 2005. This infrastructure hosts thousands of event feeds and streams billions of events into our data centers, and has helped us to become experts, applying the tools and techniques required to make sense of the variety of threats and attacks being perpetrated.

Our customized expert tools can correlate critical relationships among all the components of an attack, and model cybercriminal behavior and the environments in which they work, to quickly determine the type and degree of threat. Through human computer cooperation, we proactively identify and classify new threats from the data streams using behavioral-based AI and machine-learning identification methods, so you can understand the big picture.

Our threat defense experts analyze the results of this modeling to determine the most effective means of identifying future variants of threats, eliminating the need for updates. By correlating the knowledge we gain with global threat intelligence across multiple vectors, we deliver effective protection against the many varieties of attacks today.

**BY THE NUMBERS**

The Trend Micro Smart Protection Network:

- Receives trillions of threat queries per year
- Analyzes 100s of terabytes of threat data per day
- Identifies billions of new, unique threats yearly
- Blocks 100s of millions of threats targeting our customers daily
- Has over 250 million sensors around the world
- Protects more than 500,000 businesses and millions of consumers globally
- Is powered by Trend Micro Research, with 450+ internal threat researchers and data scientists at 15 research centers around the world, and over 3,500 external white hat researchers supporting our bug bounty program, the Zero Day Initiative™

**KEY BENEFITS**

- Collects more threat data from a broader, more robust global network of millions of sensors
- Detects new threats at time zero by utilizing technologies like AI, machine learning, and behavior monitoring
- Uses proven advanced detection analytics to enable faster protection across Trend Micro solutions for email, endpoint, hybrid cloud, network, and user environments
PROACTIVE PROTECTION

It’s critical to match the velocity of attacks with an equally fast response. Our proven cloud infrastructure, combined with our XGen™ security capabilities, allows us to rapidly deliver connected threat intelligence across endpoint, email, servers, cloud workloads, and networks to protect data wherever it resides. By applying our in-depth expertise on threats, our data scientists, working with our product experts, constantly develop proactive capabilities that identify new threats without pausing for an update.

By processing threat information in the cloud rather than on individual machines, we reduce the demand on system resources and eliminate time-consuming signature downloads. Higher performance and lower maintenance requirements also reduce operating costs.

THREAT INTELLIGENCE TO HELP PROTECT YOU AND YOUR DATA

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>BENEFIT DELIVERED THROUGH OUR PRODUCTS</th>
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<tbody>
<tr>
<td>Reputation Services</td>
<td>Email, web, file, and mobile app services check the reputation of these threat vectors to block spam/phishing, compromised websites, malicious files, and malicious mobile apps</td>
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<tr>
<td>Command and Control Communication</td>
<td>Quickly identifies botnet or targeted attack behaviors by identifying communications between targets and threat actors’ servers</td>
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<tr>
<td>Vulnerabilities and Exploits</td>
<td>Rapidly discovers and protects you against known and zero-day exploits by virtually patching newfound vulnerabilities</td>
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<tr>
<td>Whitelisting</td>
<td>Protects against false positives using in-the-cloud whitelists from one of the world’s largest threat research databases</td>
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<tr>
<td>Threat Actor Intelligence</td>
<td>Proactively protects against new threats using active research and investigation to identify new attack methods before they are used by cybercriminals</td>
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<tr>
<td>Big Data Analytics and Data Mining Correlation</td>
<td>Provides immediate and automatic protection from a multitude of threats by continuously updating and correlating massive amounts of global threat intelligence</td>
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<tr>
<td>Artificial Intelligence and Machine Learning</td>
<td>Proactive detection of 0-hour threats using advanced detection and protection capabilities. Trend Micro has been a pioneer in the use of AI/ML for over 13 years and utilize this in over 20 areas within our cybersecurity solutions</td>
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<tr>
<td>Smart Protection Server</td>
<td>Safeguards network bandwidth, endpoint efficiency, and privacy by performing web and file reputation queries directly to local servers, instead of the public cloud</td>
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<tr>
<td>Smart Feedback</td>
<td>Speeds protection by automatically updating Trend Micro’s global threat intelligence each time a new threat is identified on a single customer’s routine reputation check</td>
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AVAILABILITY

The Trend Micro Smart Protection Network delivers actionable global threat intelligence to all Trend Micro products and services, and is part of the cost of these solutions. Providing the most comprehensive coverage in the industry, it powers our consumer, commercial, and partner solutions across mobile, email, endpoint, server (physical, virtual, cloud, and container), network, messaging, gateway, and cloud platforms.

Contact your Trend Micro representative or channel partner for more information, or visit www.trendmicro.com/spn

For details about what personal information we collect and why, please see our Privacy Notice on our website at:
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