Trend Micro™
SMART PROTECTION NETWORK™

Global threat intelligence at scale for maximum threat protection

As an integral part of protecting our global enterprise, government, and consumer customers, Trend Micro™ Smart Protection Network™ has been providing threat intelligence to our community of researchers and autonomous detection engines for over 15 years. With continuous monitoring and threat data collection from across the globe, Smart Protection Network employs advanced detection and analysis techniques. This enables the Trend Micro threat defense platform to rapidly detect threats and protect customers across clouds, networks, devices, and endpoints.

With 15 global threat research centers, Trend Micro threat researchers and data scientists are constantly examining the latest tactics, techniques, and procedures (TTPs) used by cybercriminals. Focusing on both speed and accuracy, the team analyzes this wealth of global threat intelligence using automated security analytics. The use of artificial intelligence (AI) and machine learning has been employed for over 17 years, providing a knowledgebase to enable customized protection against the threats most likely to impact you.

Smart Protection Network is an integral part of Trend Micro Research, leveraging our team of hundreds of researchers and data scientists to deliver deep threat knowledge and expertise to our customers. Underpinning our global threat intelligence at scale is one of the world's most extensive cloud-based infrastructures, delivering automatic correlation of threats across multiple security layers and environments in real time. This cloud-based approach enables our customers to leverage the latest threat information to detect and stop threats quickly.

HOW IT WORKS

Smart Protection Network benefits our customers in a few distinct areas: collection in volume and breadth, improved detection and identification, and protection at speed.

COLLECT IN VOLUME

Smart Protection Network collects terabytes of threat data every day through a global network of honeypots, sensor submissions, feedback loops, and web-crawling technologies. This data is combined with insights from customers, partners, and Trend Micro threat researchers to provide greater visibility into the nature of attacks.

The collected data includes an ever-growing volume of threat vectors such as threats associated with URLs, IPs, domains, files, exploits and vulnerabilities, command and control (C&C), cybercriminal undergrounds, threat toolkits and techniques, internet of things (IoT), industrial IoT (IIoT), and mobile apps. This data also comes from a broader range of areas within customer networks than most vendors, including endpoints (PC and Mac), servers (including physical, virtual, Linux, IBM AIX, Solaris™), network traffic, email, web, cloud, mobile, IoT, and IIoT/operational technology (OT).

With threat actors located everywhere and billions of new, unique threats emerging every year, Smart Protection Network is designed to collect the massive volume and breadth of data needed to discover and protect against an ever-increasing flow of attacks.

SMART PROTECTION NETWORK

By the Numbers

Smart Protection Network:

- Analyzes more than 2.5 trillion events daily
- Receives trillions of threat queries yearly
- Identifies billions of new, unique threats yearly
- Helps block hundreds of millions of threats targeting Trend Micro customers daily
- Leverages information from over 250 million sensors around the world
- Enables the protection of more than 500,000 businesses and millions of consumers globally
- Powered by Trend Micro Research, with over 450 internal threat researchers and data scientists at 15 research centers around the world, and over 10,000 external researchers supporting our bug bounty program, Trend Micro™ **Zero Day Initiative™ (ZDI)**

IMPROVED DETECTION AND IDENTIFICATION OF ALL TYPES OF THREATS

Trend Micro pioneered the use of big-data analytics for threat intelligence when it began building Smart Protection Network in 2005. This cloud-based infrastructure hosts thousands of event feeds and streams billions of events into Trend Micro Research. This quickly made Trend Micro proficient at applying the tools and techniques required to make sense of the variety of threats and attacks being perpetrated at such a large scale.

Smart Protection Network uses customized expert tools to quickly determine the type and degree of threat. This is achieved by correlating critical relationships among all the components of an attack to model cybercriminal behavior and the environments in which they work. Through human-computer cooperation (HCC), new threats are proactively identified and classified from the data streams. Trend Micro threat defense experts analyze the results of this modeling to determine the most effective means of identifying future variants of threats. By combining the new knowledge with global threat intelligence across multiple vectors, Smart Protection Network enables all parts of the Trend Micro cybersecurity platform to deliver effective protection against the many types of attacks today.

Collect

Uncover more threat information from more places via honeypots, submissions, feedback loops, and more.

250M+ sensors

3T+ threat queries received yearly

Identify

Accurately analyzes and identifies threats faster using AI and machine-learning

5B+ new, unique threats identified yearly

Protect

Enables proactive protection

Powers all Trend Micro solutions which block 60B+ threats yearly

Supports protecting 500k organizations and millions of individuals globally

PROTECT AT SPEED

It's critical to respond to attacks as quickly as they happen. Trend Micro's global cloud infrastructure, combined with our proven cybersecurity platform, allows rapid delivery of threat intelligence across clouds, networks, IoT/IIoT devices, email, and endpoints, to protect data wherever it resides. By applying in-depth expertise on threats, Trend Micro data scientists and product experts constantly innovate and deliver new proactive capabilities that identify the latest threats.

PRIVACY

Trend Micro designed and implemented Smart Protection Network according to these principles:

- **Anonymized data:** Smart Protection Network keeps only anonymized information and avoids collecting personally identifiable information (PII) whenever possible.

- **Customer privacy is top priority:** Trend Micro securely stores any data or information collected.

- **Specifically used to improve security solutions:** Trend Micro uses the information collected within Trend Micro™ Smart Feedback to improve the protection of its customers, not for targeted advertising.

- **Industry-specific intelligence:** By collecting customer responses by industry, Trend Micro can quickly identify issues and provide solutions to threats that are focused on a specific type of organization.

- **Opt in or out anytime:** You can enable and disable Smart Feedback at any time using the administration options within your Trend Micro product or service.

- **Data in transit:** Smart Protection Network uses proven industry-standard encryption for all data before sending it to Trend Micro data centers.

- **Access control and auditing:** Trend Micro adheres to strict procedures to protect Smart Protection Network data. Only Trend Micro threat research teams working in specialized departments may access the information, which requires explicit approval that is re-evaluated on a regular basis. Trend Micro also maintains comprehensive records of access privileges and data removal for auditing purposes.

- **Data retention and deletion:** Trend Micro retains data as needed for examining and updating Smart Protection Network. However, you can ask Trend Micro to delete data originating from your computers or network at any time by visiting our **Individual Rights page**. Please note that if you request the deletion of anonymous data from Smart Protection Network, you will need to provide identifying information so that the proper data set can be removed. Lastly, it may not be feasible to remove all data that you have submitted.

AVAILABILITY

Smart Protection Network delivers continuously updated 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 commercial, partner, and consumer solutions across clouds, networks, devices, email, and endpoints.

Find out more about our work on threat research and intelligence at **www.trendmicro.com/aboutresearch**

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 clouds, networks, IoT/IIoT devices, email, and endpoints

TREND MICRO™

Securing Your Connected World