

## Trend Micro™ Virus Scan Engine

The Trend Micro Virus Scan Engine is a robust, industry-leading module that executes the file scanning and virus detection functions. Together with the virus pattern, it protects computers against known malware threats, including malicious programs written in Java™ and ActiveX™. In addition, Virus Scan Engine employs sophisticated algorithms to quickly identify unknown macro, script, boot, DOS, Windows, and polymorphic viruses.

The flexible design of Virus Scan Engine allows easy deployment to network gateways, file and Web servers, network appliances, mail servers, and desktop computers. It supports many operating systems, including Microsoft™ Windows™ and a broad range of UNIX™ and Linux™ flavors. This module also recognizes the most common encoding algorithms (including MIME, Uuencode, Bin/Hex), file types (including executable files, Web files, Microsoft Office files), and numerous compression types (including ZIP, ARJ, and CAB).

### KEY FEATURES

#### Scanning, Detection, and Protection

##### High-speed Scanning

Virus Scan Engine is one of the fastest and most efficient in the industry.

##### Heuristic Scanning

Virus Scan Engine employs multiple layers of behavior-detecting algorithms, each designed to efficiently target specific types of threats.

##### IntelliScan™

IntelliScan is a new and more efficient method of identifying files for scanning. It utilizes true file type identification to check only files that are susceptible to infection.

##### Smart Scan

Smart Scan is a new method for detecting malware that uses pattern definitions stored in the cloud. Scanning in the cloud allows deployment of lightweight clients and better system performance.

##### Scanning of Compressed Files

Virus Scan Engine can extract and scan files in multiple layers of compression. It supports a wide variety of decompression types and encoding formats.

##### High Detection Rate

Combined with regular pattern updates from Trend Micro, Virus Scan Engine provides the best possible virus protection and effectively blocks malicious code.

##### IntelliTrap

IntelliTrap uses heuristic identification to pinpoint previously unknown threats. It locates compressed files packed as executables, which are considered highly suspicious because they rarely originate from legitimate sources.

##### ScriptClean™

ScriptClean allows Virus Scan Engine to clean text files, such as HTML and Java script files.

##### ActiveAction

When malware is found, there are several actions (clean, delete, quarantine, ignore, rename) that can be taken. With ActiveAction, Virus Scan Engine can recommend and implement actions for specific malware types. As patterns are updated, actions can be updated as well, making ActiveAction more versatile than product-specified default actions.

##### Updated Virus Patterns

Trend Micro updates virus patterns regularly. If a particularly damaging virus is discovered in the wild, Trend Micro releases a new virus pattern immediately. To help manage disk space, Virus Scan Engine supports automatic deletion of outdated virus patterns.

### KEY BENEFITS

- Provides the best possible virus protection and effectively blocks malicious code while keeping false positive detection rates low.
- Multiple layers of behavior-detecting algorithms target specific types of threats, including previously unknown polymorphic or mutating viruses.
- True file type identification significantly reduces scan time and consumption of system resources.
- In-the-cloud scanning minimizes the need for updates, freeing up bandwidth, and ensures that clients are always using the latest signatures.

### Other Scanning and Detection Features

- Protection against known vulnerabilities in Adobe™ Acrobat™ and other PDF files
- Supports MacBinary (Macintosh™ to Binary) encoding scheme

### Design and Architecture

**Modular Design.** Integrating the high-performance Virus Scan Engine into any infrastructure is easy.

**Configurability.** A Service Provider using Virus Scan Engine can customize every step of the scan process, from the file types to be scanned to the action to be taken during virus detection.

**Updatability.** Virus Scan Engine's hooking and resource design translates to easier and faster updates, enabling customers to respond quickly to new threats.

**Multi-threading Support.** Virus Scan Engine supports multi-threaded operation, which allows efficient usage and sharing of computing resources for faster scanning.

**Expandability.** Trend Micro continuously improves and updates Virus Scan Engine while keeping it backward compatible.

### SUPPORTED PLATFORMS

Virus Scan Engine can be used to build applications for the following hardware platforms and operating systems:

- FreeBSD™
- HP-UX™ 10/11
- Linux
- Mac OS™ X
- Novell™ NetWare™
- Sun™ Solaris™ x86
- Sun™ Solaris™ SPARC™
- Windows™ 32- and 64-bit

### TREND MICRO SMART PROTECTION NETWORK

Trend Micro Virus Scan Engine is powered by the Smart Protection Network, a next-generation cloud-client content security infrastructure designed to protect customers from Web threats.

The Smart Protection Network powers both on-premise and hosted solutions to protect users whether they are on the network, at home, or on the go, using light-weight clients to access its in-the-cloud correlation of email, Web, and file reputation technologies, as well as threat databases. Customers' protection is automatically updated and strengthened as more products, services and users access the network, creating a real-time neighborhood watch protection service for its users.

### ABOUT TREND MICRO

Trend Micro Incorporated, a global leader in Internet content security, focuses on securing the exchange of digital information for businesses and consumers. A pioneer and industry vanguard, Trend Micro is advancing integrated threat management technology to protect operational continuity, personal information, and property from malware, spam, data leaks, and the newest Web threats.



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