



# ANTI-MALWARE SDK

## CROSS PLATFORM

The Avira cross platform Anti-malware SDK (SAVAPI) is a platform that enables you to build security solutions for Windows, Mac, and Linux systems, running on Intel and ARM processors.

It allows you to help protect your customers from malware, ransomware, and malicious phishing & web links embedded in content.

Integrating the Anti-malware SDK on your appliances, endpoints, and cloud infrastructure enables you to build a product or service to scan files for malware, ransomware and malicious links. It employs machine learning and integrates with the Avira Protection Cloud to access near real-time classification intelligence of files and URLs containing potentially malicious content and help protect users from Zero-day threats.

Using an Anti-malware SDK as a platform provides a straightforward way for developers and providers of security products and services to get to market quickly. It saves you from the cost and complexity of in-house development by leveraging technology already created by one of the cybersecurity industry's leading vendors.

The Avira cross platform Anti-malware SDK is already widely used by hardware and software vendors looking to implement antivirus/anti-malware solutions on endpoints, servers, firewalls, UTM, email gateways and by software utility providers. It can be deployed in container, onpremise, hybrid and in-cloud.

## INTEGRATION

The Software Development Kit is written in C and can be used by any common C/C++ compiler.

Several deployment scenarios offer a wide range of integration options, from the simplest to the more complex, on either Intel or ARM processors. These include:

Library mode: A C library available for Windows (32-bit & 64-bit), Linux, and MacOS, offers extensive control of integration with callback support. Using callbacks for file operations (FOPS) means simplified integration to memory backed, virtual, and encrypted file systems.

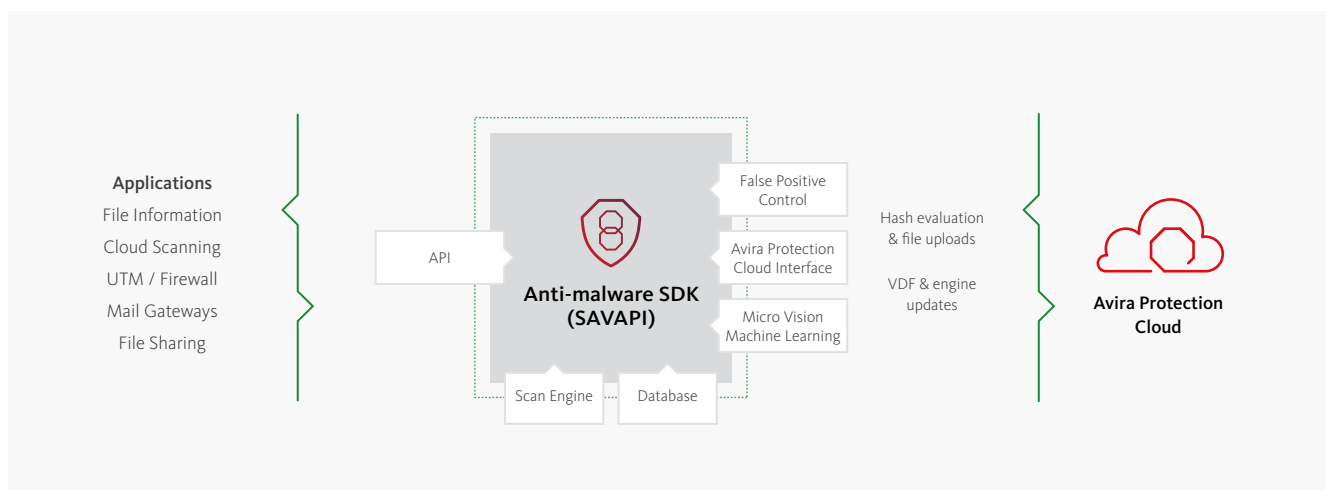
Daemon/service mode: A multi-threaded service or daemon listens to client requests on Unix and network sockets. A variety of integration methods are available including C#, Perl, Python, C, and C++.

### Key Features:

- Intel and ARM support
- Fast integration time, typically within hours
- Daemon updates without service interruption
- Supports scanning of all file types
- Offline scanning including signature based, heuristics and generic analysis
- Integrated machine learning providing local risk evaluation
- Integration with Avira Protection Cloud
- False Positive Control



## ANTI-MALWARE SDK INTEGRATION EXAMPLE



### AVIRA PROTECTION CLOUD

The Avira Anti-malware SDK can be deployed with or without a connection to the Avira Protection Cloud.

Integration with the Avira Protection Cloud enables you to achieve the highest detection rates and helps protect customers from Zero-day and Advanced Persistent Threats.

When the Anti-malware SDK detects an unknown or suspicious file, an API query containing a hash of the file is sent to the Avira Protection Cloud. If the Avira Protection Cloud cannot identify the hash, then the file can be uploaded for real time analysis.

Within the Avira Protection Cloud the file is analyzed by NightVision™, an advanced machine learning system, detonated in a hardened environment to reveal malicious behavior, and scanned by powerful cloud-based engines. Only after the systems classify the file as likely to be safe will the Anti-malware SDK pass the file for execution.

The combination of a lightweight scanning engine with cloud computing power can deliver one of the best performing anti-malware solutions available, combined with fast response times.

### FALSE POSITIVE CONTROL

False Positive Control is Avira's mechanism to ensure exceptional false positive detections are identified in real time and prevented from impacting the performance of anti-malware scanning. It is a no-cost option that can be enabled within Avira's Anti-malware SDK (SAVAPI).



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## SPECIFICATIONS

### Size:

200MB

### Platform requirements:

Intel or ARM

Min 1.6GHz dual core CPU

512MB RAM for exclusive use

1GB of Disk space for unpacking

### Supported OS:

Windows (32-bit & 62-bit), Linux, MacOS

### Implementation:

Pure Library Mode or

Pure Daemon/Service Mode or

Client Library & Daemon/Service Mode

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#### APJ & EMEA

##### AviraOEM sales office

##### NortonLifeLock Ireland Ltd

Ballycoolin Business Park,  
Dublin 15, Ireland

#### Americas

##### AviraOEM sales office

##### Avira Inc.

487 E. Middlefield Rd.  
Mountain View  
CA 94043, USA

## FIND OUT MORE

Website: [oem.avira.com](https://oem.avira.com)

Email: [oem@avira.com](mailto:oem@avira.com)

Social Media: @Avira