BitDefender Software Development Kits

Using state-of-the-art technology, BitDefender offers a wide range of SDKs to meet your specific business needs

Adding security to your solution is an excellent way to increase your revenues and grow your business. But choosing the right security provider is essential to ensure that you can offer top-quality protection against a wide range of threats, without feeling like you are in the security business.

BitDefender understands, and offers a comprehensive line of SDKs that are easy to integrate and use, so you can add security to your offering with minimal effort. There are six different BitDefender SDKs to meet an array of business needs, and their modular format allows you to customize the solution even further.

An SDK to Fit Your Specific Needs

With a wide range of SDK's, BitDefender makes it easy to add security to your solution, while continuing to focus on your core business:

·Core SDK

The BitDefender Core SDK is ideal for those with a high level of technical expertise, and who have specialized security needs. Offering partners the highest degree of flexibility by providing access and control over all core security settings, the BitDefender Core SDK can be tuned to meet specific scanning requirements.

The Core SDK is most appropriate for security providers and others who currently possess all the necessary security infrastructure, and want to either add a security engine, or replace their existing engine. Those who have substantial technical resources and experience integrating security software, and are therefore able to invest development effort into the application, will reap the greatest reward from the Core SDK.

·High-Level SDK

The BitDefender High-Level SDK is the best choice for those who wish to add security to their solution, but who do not have specialized security needs. Based on the BitDefender Core SDK, the High-Level SDK inherits all the most critical features of the Core SDK - including its detection rate, memory usage, and scanning speed - but it has the most common security functionality already integrated, so minimal development effort is required.

The BitDefender High-Level SDK provides access to such commonly used security functions as: on-demand and on-access scanning; in-memory and IStream scanning; and the BitDefender anti-rootkit module. However, due to its modular structure, you have a choice which components to use, to build a customized solution that best fits your needs.

·On-Access SDK

The BitDefender On-Access SDK is intended for software application providers who want to ensure that files produced with their application are always free from security threats. An integrated component of the High-Level SDK, the BitDefender On-Access SDK is designed to scan files produced with a specific application.

Each time a file produced using your application is launched, the BitDefender On-Access SDK makes a system call to your application which, in turn calls the scanning engine. This enables you to assure a high level of security with the files and processes associated with your application, without the need to include scanning mechanisms for components associated with other vendors.

·Mirroring SDK

The BitDefender Mirroring SDK is for companies who want to host their own security offering, but lack the required infrastructure, including the comprehensive database of known threats. The Mirroring SDK enables partners to leverage the BitDefender database, which is updated every 90 minutes and immediately available to the partner - so you can offer the same level of security detection and protection as BitDefender.
You can choose to integrate the BitDefender Mirroring SDK using a push, pull, or cloud-based service, for a truly customized solution that fits your specific needs.

·Client-Server SDK

The BitDefender Client-Server SDK offers AV scanning services as a server-side process. Ideal for firewall and intrusion detection system vendors, the BitDefender Client-Server SDK scans files and shared memory segments via a separate server process. The client and application components are both provided as open source libraries to make integration easy, requiring minimum development effort.

· Anti-Spam and Parental Control SDK

The BitDefender Anti-Spam and Parental Control SDK enables you to provide your customers with the highest level of protection against unwanted email, phishing attacks, and other email borne threats, as well as Internet-based content that is offensive or harmful to children. Engine and the signature database updates are provided as frequently as every 15 minutes and its modular structure maximizes flexibility and extensibility, so you can always have the latest protection available, with minimal development effort.

Broad Platform Support

In addition to the major Windows, Mac, and Linux computing platforms, BitDefender SDKs support a wide range of platforms, including X/OS, Free BSD, PowerPC, and MIPS. BitDefender SDKs were built for portability, so they can be easily ported to additional platforms in as little as three weeks. Most competitors require up to a year to port to a new environment.

Native 64-Bit Support

BitDefender SDKs also provide native support for 64-bit processors. Most competitive offerings only support 32-bit systems - and most who do claim to support 64-bit actually run 32-bit applications in a 64-bit environment, which can seriously degrade performance. With native 64-bit support, BitDefender SDKs can take full advantage of the power provided by these enhanced processors, with an absolute minimal impact on system resources.

True Multi-Threading Capabilities

The unique multi-threading capabilities of BitDefender SDKs enable them to execute multiple simultaneous scans, with minimal impact on system resources. Most competitors can only accomplish one task at a time, while others simulate multi-threading by launching separate processes - a practice that commands tremendous amounts of memory and other system resources, thereby dramatically impacting performance.
But BitDefender SDKs have the ability to conduct direct scans of process memory, even when those processes are owned by different vendors.

Easy to Develop and Integrate

All BitDefender SDKs are used in BitDefender-branded products, so they benefit from a thorough QA process, real-life customer feedback, and market experience. Each SDK also offers the same high level of detection and protection as its BitDefender-branded counterpart, so you can offer security protection to your customers with confidence.

BitDefender SDKs at a Glance

BitDefender SDK	Benefit	Providers Who Can Benefit	Supported Platforms	Supported Operating Systems
Core SDK	Provides a maximum level of granularity and control over the scanning engine and process	·Antivirus ·Firewall ·Intrusion Detection System	·32-bit x86 ·64-bit x86-64 (x64) ·Power PC ·MIPS n32, MIPS 64	·Windows (including Windows 9x) ·Linux ·Free BSD* ·Mac OS
High-Level SDK	Provides quick integration capabilities and access to commonly used functions such as: on-demand and on-access scanning; on-the-fly updates; in-memory and stream scanning; and anti-rootkit capabilities. With the functionality most partners require already built in, this SDK minimizes your programming effort	·Firewall ·Intrusion Detection System ·Managed Security Services ·Messaging & Collaboration Solutions ·Desktop Security Application Providers	·32-bit x86 ·64-bit x86-64 (x64)	·Windows 2000 and above (the On-Access driver requires Windows 2000 SP4) ·Linux ·Free BSD* ·Mac OS 10.5 (Intel)
On-Access SDK	Enables the partner application to call the scanning engine, to scan files created with a particular product each time those files are opened	Desktop Security Application Providers	·32-bit x86 ·64-bit x86-64 (x64)	·Windows 2000 and above ·Mac OS 10.5 (Intel)
Mirroring SDK	Mirrors the BitDefender anti-malware database, which is updated every 90 minutes on average, and can be integrated with push, pull, or cloud-based services - for a customized solution	N/A (supplementary to other SDKs)	·32-bit x86 ·64-bit x86-64 (x64)	·Windows 2000 and above ·Linux ·Free BSD* ·Mac OS 10.5 (Intel)
Client-Server SDK	Enables antivirus scanning as a server-side process	·Firewall ·Intrusion Detection System ·Managed Security Services ·Messaging & Collaboration Solutions	·32-bit x86 ·64-bit x86-64 (x64)	·Linux ·Free BSD*
Anti-Spam and Parental Control SDK	Enables the addition of powerful anti-spam engines and anti-phishing technology to newly-developed or existing products	·Firewall ·Intrusion Detection System ·Messaging & Collaboration Solutions ·Managed Services Providers	·32-bit x86 ·64-bit x86-64 (x64)	·Windows 98 and above ·Linux ·Free BSD*

* The two most recent major releases

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