Online Threats Software Development Kit (SDK)

Protecting Against Online Threats

The web has become one of today's preferred attack vectors for cybercriminals. The pervasive use of the internet in both personal and business lives and the extensive growth of online shopping and banking, as well as the proliferation of social media networks, among others, have rendered organizations and users more vulnerable to various online threats, such as phishing, identity theft and fraud. Any connection to the internet can mean a direct link to attackers, and many web threats can be deployed unbeknownst to users, by simply clicking on a URL.

Phishing is one of the most dangerous methods used by online attackers, and thus a primary threat to any internet user, as cyber criminals aim to steal credentials for banking and financial services, email, and other business-critical information such as customer data. As a result of phishing attacks, companies may suffer extensive financial damage, loss of productivity and confidential information and, ultimately, damage to the brand's reputation.

The Bitdefender Online Threats SDK provides real-time protection from phishing attacks and other online threats. It identifies and stops attacks in their tracks, helping prevent security breaches and data loss. The SDK is well suited for integration by a wide variety of partners, including network and endpoint security vendors, email security vendors and companies offering anti-fraud services, ISPs or web-hosting companies and others.

Bitdefender Online Threats SDK

The Online Threats SDK detects phishing and fraudulent websites before they can expose a user to a scam attack. The SDK uses advanced local and cloud filters to analyze URLs and webpage content supplied by the partner application, and validates whether they pose a threat.

The SDK combines superior detection powered by advanced heuristics with cloud-based updates provided by the Bitdefender security cloud (Global Protective Network / GPN), which processes billions of website transactions daily. Using the Bitdefender Threat Intelligence cloud ensures instant detection and/or updating of URLs and websites, even those that are live very briefly, as well as fast reaction to new attacks such as phishing outbreaks.
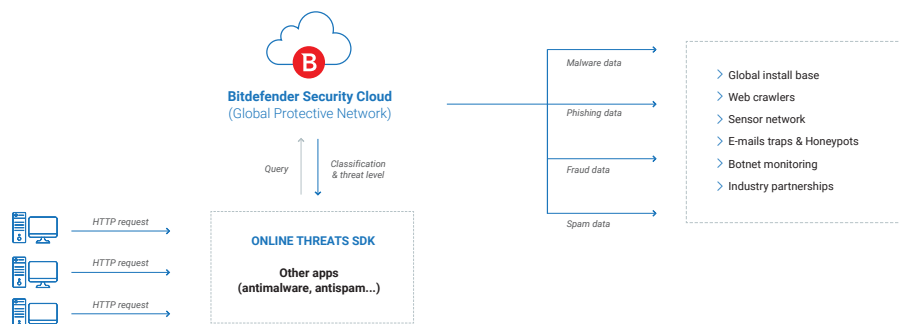
Industry-leading Coverage and Accuracy

The Online Threats SDK uses Bitdefender's security cloud (GPN), which leverages intelligence from 500 million threat sensors globally. This offers up-to-the minute protection and visibility across the global threat landscape, including:

- 7 billion queried URLs per day, 66+ million blocked URLs per day
- 350,000+ potentially malicious URLs received daily
- 80,000+ URL requests per second, with an average response time of < 100 milliseconds

Bitdefender continuously maintains and updates its cloud database. URL information is added and updated in real time, with new malicious URLs, domains identified and processed by Bitdefender technologies, and additional intelligence gained from multiple sources such as Bitdefender's award-winning antispam, anti-phishing and antifraud technologies, including:

- URLs identified and processed by Bitdefender's global install base
- Internal crawling systems and web crawlers
- Internet transactions and new domain registrations
- Email traps, honeypots and data from monitored botnets
- Powerful heuristics engines and content analysis
- Shared data with industry partnerships

Features

The Online Threats SDK offers real-time protection from online cyber threats such as phishing and fraud attacks:

- Uses Bitdefender proprietary technologies, which reduces dependencies on other technologies
- The combination of cloud and local filters ensures high-speed scanning and accuracy, with a small footprint
- Local filters include forgery detectors, page fingerprinting filters, summary filters, signatures filters, local blacklists
- Advanced heuristic techniques ensure enhanced detection of phishing attempts and outbreaks
- Malicious URLs are updated in real time using the Bitdefender cloud (Global Protective Network)
- Offers a simplified, easy-to-use API that ensures a quick and easy integration process
- Proven technologies, extensively used in the Bitdefender portfolio of products and SDKs
- Full multi-threading and concurrency scan support ensures high-speed, performance/parallel scans

Benefits
The SDK provides partners with a highly efficient tool for preventing and combating threats that use the web as an attack vector:

- Identifies malicious, phishing and/or other fraudulent websites in real time
- The combination of local and cloud filtering delivers high-speed, accurate detection
- Using the dynamically updated cloud database provides instant reaction to threats
- Advanced heuristics techniques ensure a high degree of accuracy in detecting phishing attacks
- Full multi-threading enables simultaneous scans with minimal impact on system resources
- Easy to integrate with multiple solutions, e.g. gateway/servers, network appliances, endpoints, content filtering solutions, anti-spam solutions, email and endpoint security, DNS, perimeter security appliances
- Using cloud filters also ensures a small footprint, reducing the need for a large local database

Specifications
- Provides C language bindings
- Supports multiple OSes (Windows, Linux, Mac) with the same API
- Offers native support for 32-bit and 64-bit platforms

FREE Evaluation
Evaluating the Bitdefender Online Threats SDK is free of charge and includes technical support.

Contact us
For more information about the SDK or any Bitdefender security technology, please reach us at
www.bitdefender.com/oem

About Bitdefender Technology Licensing. Bitdefender provides end-to-end cyber security solutions and advanced threat protection to more than 500 million users in more than 150 countries. Since 2001, Bitdefender has consistently produced award-winning business and consumer security technology, and has become a provider of choice for leading Independent Software Vendors (ISVs), hardware vendors, service providers and enterprise organizations looking to integrate security technologies into their products and services. Today, Bitdefender has over 150 technology partners worldwide. More information is available at www.bitdefender.com/oem

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