

# McAfee SpamKiller Product Family

McAfee® SpamKiller® part of the McAfee Secure Content Management™ product family provides industry leading anti-spam protection. Tuned for performance, SpamKiller provides protection for your network, giving you up to a 95 percent spam detection rate out of the box.

## What Is Spam?

### Defining a Growing Problem

There are many different ways to describe spam, and one user's spam may be another user's useful information. Every industry study currently suggests that the volume of spam is growing; the studies simply don't agree on how quickly. Current estimates suggest that spam e-mail makes up as much as 50 percent of all e-mail received by organizations.

## Is Spam Just a Nuisance? No!

### A Devastating Threat

There are four key nuisance areas where spam e-mail costs your organization money.

**Lost Productivity**—This refers to the amount of time your users waste reading and dealing with unwanted e-mail. Lost productivity for users is estimated to be the largest spam-associated cost for companies.

**Inappropriate Content**—This can be defined in two ways. The first refers to an e-mail that is in some way deemed offensive and is most likely an HR violation—this type of message could offend an individual or a group of people. Content can also be deemed inappropriate from a legal standpoint for example when an employee sends an e-mail outside of an organization expressing views that are clearly not supported by company policy.

**Consumption of IT Resources**—This refers to the amount of network bandwidth that can get taken up by spam e-mail that has entered the network.

**Spam as a Security Threat**—Spam e-mails can contain malicious code or Trojans and DDoS attacks, and virus-infected e-mails can use spam-like methods of distribution. Spam protection is an essential component of your security policy.

## SpamKiller Technology

The core technology of the SpamKiller Product Family is the McAfee SpamAssassin™ engine. The SpamAssassin engine works on a rating system that scores e-mail based on a series of tests. It

is highly accurate in spam identification and catches up to 95 percent of all spam e-mail out of the box, while giving a very low false-positive identification rate. In addition to providing excellent detection rates for spam e-mail, McAfee has also incorporated *anti-phishing* technology into the spam filtering rules, enabling potential phishing scams to be detected and stopped.

## Multiple Levels of Spam Protection

### Seven Levels to Ensure Detection

SpamAssassin uses a scoring system based on an extensive rule set to determine whether a particular e-mail message is spam. Hundreds of rules are run against each e-mail, and each rule is associated with a score, positive or negative. Rules with negative scores indicate attributes of legitimate mail; rules with positive scores indicate attributes of unsolicited mail. When added together, these individual scores give each e-mail an overall spam rating. A genetic algorithm optimizes the scoring, using an archive of millions of spam and non-spam messages to determine the scores for the individual rules. SpamKiller then moves the e-mails into the user's inbox, the user's personal junk mail folder, or a system-wide junk mail folder.

Utilizing this underlying rule-set process, SpamKiller checks each e-mail message that is received by using six different methods of detection.

- **Integrity Analysis**—SpamKiller examines the header, layout, and organization of each e-mail message to identify the common characteristics of spam
- **Heuristic Detection**—A series of internal tests are used to determine the likelihood that a message might be spam, and each test carries a score to help reduce false positives
- **Content Filtering**—This functionality can be used to identify key words or phrases that appear in an e-mail, which could indicate whether the message is spam
- **Blacklists and Whitelists**—The administrator is able to set the standards at the server level to determine spam e-mail for everyone in the organization using global blacklist and whitelist settings. Individuals are able to supplement the rule set by defining their own blacklist or whitelist entries
- **Self-Tuning**—SpamAssassin is able to learn the characteristics of the e-mail you receive to adjust the overall spam rating for new messages sent by a known sender

- **Bayesian Filtering**—Spamkiller allows e-mail messages to be intelligently assessed for spam and non-spam criteria
- **DNS-Blocklist support**—By integrating with blocklists available on the Internet, SpamKiller is able to block known spam e-mail instantly

### McAfee Protection-in-Depth

McAfee SpamKiller Product Family is part of the McAfee Protection-in-Depth™ Strategy that provides security from the edge of the network to PCs and Servers. McAfee Protection-in-Depth is a smarter, proven, and more proactive way to detect, prevent, and minimize security risks. It provides unified cost-effective, multi-layered protection, enabling companies to defend data throughout the organization.

### McAfee PrimeSupport

McAfee has pursued a strategy of providing best-of-breed technology for each type of security and performance management application—but the Protection-in-Depth Strategy is more than just deploying and implementing best-of-breed solutions today. Prevention is certainly our first priority, but inevitably, you will have to react to a problem.

The McAfee PrimeSupport® program is essential for making the most of your investment in McAfee System and Network Protection Solutions. McAfee's PrimeSupport team has all the right resources and is ready to deliver your needed service solution. PrimeSupport resources include: delivering authorization to access all available maintenance releases and product upgrades, access to a comprehensive suite of additional online self-support capabilities, live telephone support accessible 24/7/365, available assigned support account managers, and a range of software and hardware support solutions that can be tailored to meet your needs.

### SpamKiller Product Family Features

	<i>McAfee SpamKiller</i>	<i>McAfee SpamKiller for Lotus Domino</i>	<i>McAfee SpamKiller SecurityShield®</i>	<i>McAfee SpamKiller Appliances</i>
Multi-Tiered Solution	Yes	Yes	Yes	Yes
E-Mail Server Product	Yes	Yes	No	No
Internet Gateway Product	No	No	Yes	Yes
Multiple Levels of Spam Protection	Yes	Yes	Yes	Yes
Positive or Negative Spam Scores	Yes	Yes	Yes	Yes
Overall Spam Rating Determined for Each E-Mail	Yes	Yes	Yes	Yes
Rule Set Detection	Yes	Yes	Yes	Yes
Extensive Rule Set Supplied	Yes	Yes	Yes	Yes
Integrity Analysis	Yes	Yes	Yes	Yes
Header, Subject, and Structure Analysis	Yes	Yes	Yes	Yes
Heuristic Detection	Yes	Yes	Yes	Yes
Probability Testing	Yes	Yes	Yes	Yes
Content Filtering	Yes	No	Yes	Yes
Preset Smart Filtering Lists	Yes	No	Yes	Yes
Blacklist and Whitelist Support	Yes	Yes	Yes	Yes
Personal Lists Defined by Users	Yes	Yes	No	No
Global Lists Defined by Administrators	Yes	Yes	Yes	Yes
Personal and Global Lists Operating Jointly	Yes	Yes	No	No
Bayesian Filtering	Yes	Yes	Yes	Yes
Pre-Taught Database	Yes	Yes	Yes	Yes
Intelligent Assessment of E-Mail	Yes	Yes	Yes	Yes
Anti-Phishing Technology	Yes	Yes	Yes	Yes
Enterprise Reporting via ePolicy Orchestrator®	Yes	Yes	Yes	Yes
Graphical Reports and Trend Analysis	Yes	Yes	Yes	Yes
Centralized Management via McAfee ePolicy Orchestrator	Yes	Yes	Yes	Yes
Alerts and Quarantining	Yes	Yes	Yes	Yes
Quarantine Spam	Yes	Yes	Yes	Yes
Delete Spam	Yes	Yes	Yes	Yes
Full Alerting to Administrators and Users	Yes	Yes	Yes	Yes
DNS-Blocklist Support (RBL Lists)	No	No	No	Yes
Hardware and Software Provided	No	No	No	Yes
Software Only	Yes	Yes	Yes	No

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