BitDefender Technology Integration

Branded Antivirus Protection

Statistics say that virus attacks cause damages up to $2.5 million/hour, and a new virus appears every hour. One virus, Sasser.A, infected millions of computers in the first hours after being released and caused billions in damages. It was based on an exploit which had been known and patched against for months.

It's time for you to integrate antivirus protection in your software mix! The software market is increasingly security-conscious, demanding added protection from viruses, spam and intruders. BitDefender technologies will complete your software offer.

Business Advantages:

We offer you the possibility to add antivirus protection to your software mix with little effort and at a reasonable cost. In addition to that, we provide:

- Added value services at no added cost
- The best protection for your clients. The BitDefender team has the fastest response time to new electronic threats (BitDefender is the first AV company to release antidotes against viruses like Win32.Bagle, Win32.Netsky, Win32.MyDoom)
- Quick return on investment
- Optimal price/performance ratio for clients
- Effective integration support

Most Reactive Antivirus Producer

BitDefender has a well-established track record of short reaction times in case of computer virus epidemics. The current average reaction time is around two hours (as per the latest independent report from www.av-test.org).

Awarded for Innovation

BitDefender is the only antivirus product which received the European IST-Prize, awarded by the European Commission and by representatives of 18 academies in Europe.

Average response times of AV companies in the last 9 months		
Less than 2 hours:	-	-
Less than 4 hours	**1**	**BitDefender**
	2	Kaspersky
Less than 6 hours	3	AntiVir
	4	Dr. Web
	5	F-Secure
	6	Panda
	7	RAV
Less than 8 hours	8	Quickheal
	9	Sophos
Less than 10 hours	10	AVG
	11	Command
	12	F-Prot
	13	Norman
	14	Trend Micro
	15	VirusBuster
Less than 12 hours	16	Avast
	17	eTrust
Less than 14 hours	18	Ikarus
	19	McAfee
Less than 16 hours	20	eTrust with VET engine
	21	Symantec
Overall response time: about 10 hours		

Courtesy of Andreas Marx (www.av-test.org) October 2004

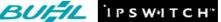## BitDefender - Latest Prizes

REFERENCES:

Data Becker GmbH *www.databecker.de*

"Data Becker is one of the world's leading publishers of software, computer books and supplies, also publishing several popular computer magazines in Germany. "Our 24 years of experience in providing innovative ideas and products have secured us a dominant position in the German market. For the Data Becker Antivirus solutions we chose the quality and innovation embodied in the BitDefender scanning engines." says Oliver Kohl, Product Manager at Data Becker.

G Data *www.gdata.de*

Founded in 1985, G DATA Software AG develops and sells software. AntiVirusKit, the DaViDeo range, Logox, PowerRoute and PowerInfo all belong to the highly successful G DATA product range.

"Integrating BitDefender engines in our AVK antivirus solution was a very good business decision for us. Our business has grown, and we are now the second best selling antivirus brand in Germany, largely thanks to the quality and reliability of the engines we employ. Because of this success, we have decided to offer Linux antivirus as well. Of course, we considered BitDefender again. When you look for the best protection, there simply isn't much choice." says Dirk Hochstrate, Product Director at G Data.

GFI *www.gfi.com*

Nick Galea says of BitDefender: "We have worked with BitDefender for 4 years and have been very pleased with our cooperation: They are quick to respond and flexible. We also believe that their anti virus technology is second to none…"

Hauri *www.hauri.net*

Hauri Inc. has chosen to implement BitDefender proprietary Virus Scan Engines in Hauri products for the 'Hauri Next Generation Anti-virus Engine Development Project.As the first stage of this project, BitDefender Antivirus engine will be running alongside Hauri's ViRobot engine in all Hauri antivirus products. CEO Kwon Seok Chul of Hauri said: "For a 100% protection against all kinds of malicious programs, such as worms or viruses, we have planned our 'Next generation Engine Development Project' before embodying the fusion of some other companies' security solution module to multi-type. We made a real decision to offer a comprehensive vision to our customers."

Ipswitch *www.ipswitch.com*

Ipswitch develops and markets software for small and medium businesses worldwide. Its products include Ipswitch Collaboration Suite (collaboration), Ipswitch WhatsUp (network monitoring) and Ipswitch WS_FTP (data transfer management). "More than 100 million people use Ipswitch solutions every day," says Patrick Loring, director, business development for Ipswitch. "They understand and appreciate that our solutions provide what they want and need, not superfluous functionality and complexity. In that vein, BitDefender is a solid addition to the standard version of Ipswitch Collaboration Suite. Security is top-of-mind with our customers. BitDefender offers reliable and cost-effective protection without decreasing productivity."

Laplink *www.laplink.com*

Laplink is the expert in file transfer, remote access and synchronization technology. For over 21 years Laplink has brought innovative instant connectivity solutions to home, professional, and enterprise clients. Thomas Koll, CEO at Laplink says: "…Our customers expect full-spectrum protection for their data and systems. Providing it is our job, and we strive to meet those expectations. Integrated antivirus is part of our commitment to a 360-degree protection strategy that ensures the systems at each end of the communications link are clean and secure. Without this crucial component, every other protection measure we take is next to useless. We chose BitDefender for our flagship product, Laplink Gold, because it's consistently one of the first to identify and offer protection against new viruses.

Software602 *www.software602.com*

Software602 is an International software vendor providing technologies for personal and business computing. The company offers a wide range of software designed to simplify everyday computing. Its other most popular products are 602PC SUITE - FREE Alternative to MS OFFICE, 602PRINT PACK and eDock Server. "Software602 continues to focus on bringing a complete network security package together with unprecedented value, so anyone can safely take advantage of the Internet's global information resources. BitDefender's technology provides superb performance and reliability that reflects their dedication to anti-virus research", stated Premysl Pech, President of Software602, Inc.

The Technological Advantages

Technology Integration Support

With minimal efforts and costs, of BitDefender scanning engines can easily be integrated in your product. Our experienced developers will assist and advise your team during the implementation process.

- Minimal efforts and costs for the integration through API
- Detailed documentation of the API and source code exemplification
- Around the clock technical support and maintenance of the product using our engines
- 24 hours response for suspicious files
- Platform independent. Compatibility at binary level for any IA32 based Operating Systems (such as: Windows, Linux, FreeBSD, OpenBSD, NetBSD, Solaris i386) and at the source code level for other OS's (such as: Solaris SPARC, Macintosh)
- Complex API which exports any function you need in order to check a file, an object or a memory area
- Disinfection modules

Scanning Engines - Technology Overview

The BitDefender Scanning System has an opened and distributed architecture that is based on distinct scanning engines for different types of files and malware. Also the scanning mechanism encloses its own system for the most common types of archives and packed files.

The scanning Engines from BitDefender were specially developed to offer full protection against all types of malware.
- High Speed Performance. Multithreading architecture. Low memory consumption.

- Updates and upgrades on a daily basis
- Full protection against any type of viruses including, but not limited to: executable viruses, script viruses, macro viruses, backdoors, trojans, spyware, dialers, etc. Every virus family benefits from a dedicated scan engine which was designed in accordance with the class characteristics
- 100% disinfection for In The Wild viruses as certified by ICSA Labs and Checkmark
- daily updates and upgrades of the virus signatures
- scanning support for 18 types of archivers and more than 60 packers (including UPX, NeoLite, ASPack, PECrypt, pklite) as well as the majority of installation packers and mail archive types.

Cutting Edge Technologies

Advanced Heuristic Detection
- Proactive detection of viruses including various versions of very well known viruses such a as Win32.Bagle Win32.Zafi, Win32.Sober
- Using this technology BitDefender can detect suspicious activity common to P2P worms, E-mail worms, Antivirus Killer programs and many other
- The optimized emulation procedure enables BitDefender to analyze the behavior of all files types in a virtual machine without significant performance impact.

On access scanning driver
- advanced driver, capable to intercept and block access to and execution of infected files
- currently works on Windows 9x, Windows NT based operating systems; a version for Windows 64 will be available by the middle of 2005
- low overhead and low performance impact
- sample applications and support for the implementation.

Extensive Archive Support

BitDefender scans inside the most common type of archives and packed files, including, but not limited to the following:

Supported archive types

Ace	Arc	Arj	Bzip2
Cab	Cpio (clean + delete)	Gzip (clean + delete)	Ha
Imp	Jar	MS Compress	Lha (lzx)
Rar (including 3.0)	Rpm (clean + delete)	Tar (clean + delete)	Z
Zip (clean + delete)	Zoo		

Supported packers

ACProtect/UltraProtect	ASPack (all versions)	Bat2exec (1.0, 1.2, 1.3, 1.4, 1.5, 2.0)	Yoda's Cryptor
CExe	Diet	DxPack	Dza Patcher
ECLIPSE	Exe32Pack (1.38)	ExePack	ExeStealth
Ezip 1.0	Fsg	Ice	JdPack
JdProtect	Lzexe	Mew	Molebox (2.2.3, 2.2.4, 2.2.5, 2.2.6, 2.2.8)
Morphine	Neolite		PC/PE Shrinker 0.71
PCPEC	PE Crypt 32 (1.02 (a,b,c)	PE PACK\CRYPT	PeBundle
pecompact (up to 1.40 beta 3)	PeDiminisher	PELock NT	Pencrypt (3.1, 4.0a, 4.0b)
PePack (all versions)	Perplex	PeShield	PeSpin
Petite (all versions)	Pex	PhrozenCrew PE Shrinker (0.71)	PkLite
PKLITE32 (1.11)	Polyene	RelPack	Rjcrush (1.00, 1.10)
Shrinker (3.3, 3.4)	VgCrypt	Stpe	Telock (all versions)
T-pack	Ucexe	UPolyx	UPX (all versions)
WWPACK32 (1.0b9, 1.03, 1.12, 1.20)	Wwpack (3.01, 3.03, 3.04, 3.04PU, 3.05, 3.05PU)	Xcomor (0.99a, 0.99d, 0.99f (486), 0.99h, 0,99i)	

Installation packers

Inno (Inno Installer)	Instyler	VISE (viza.xmd)	
InstallShield (ishield.xmd)	Nullsoft Installer (NSIS)	Wise Installer	

Mail archives

Dbx (Outlook Express 5, 6 mailboxes)	Mbx (Outlook Express 4 mailbox)	Pst (Outlook mailboxes - supports clean and delete)	Mime (base64, quoted - printable, plain) - supports clean and delete
Mbox (plain mailbox - Linux and Netscape)	Hqx (HQX is a format used for mail attachments on Mac)	Uudecode	Tnef (a Microsoft format in which some properties of the attachments are encoded, it can contain scripts).

Others

Chm (contains html-s which can be infected)	Iso (CD images)	Pdf	Rtf
Mso (contains compressed OLE2 files, this way the macro's are saved in case a Doc is saved as html)	Swf (extracts certain fields that contain various commands; these are scanned by other plug-ins, for ex: SDX)	Bach (extracts debug.exe scripts on the basis of heuristic methods)	Omf (object file)