



STRIKEFORCE TECHNOLOGIES, INC.

Identity Solutions You Can Trust

GuardedID[®]

The worlds most powerful keystroke encryption solution; preventing keyloggers and malware from stealing personal & corporate data

Protect

Authenticate

Verify



STRIKEFORCE TECHNOLOGIES, INC.

Problem:

The Ever Changing Threat Landscape

- Wall Street Journal 1/21/09: Heartland Payment Systems Inc. said Tuesday that cyber criminals compromised its computer network using keyloggers, gaining access to customer information associated with the 100 million card transactions it handles each month.
- Data Breaches were up 47% in 2008 from 2007.
- Someone's Identity - data is stolen every 3 seconds.
- Existing defenses "Anti-Virus Software" are not match against today's threats i.e. "Zero-Day Attacks", "Click-Jacking", or Trusted Insiders".
- World Bank Under Cyber Siege in "Unprecedented Crisis", keyloggers used to steal account data over a 7 month time-frame.



STRIKEFORCE TECHNOLOGIES, INC.

Solution:

GuardedID's Keystroke Encryption Technology

- **GuardedID** is a groundbreaking new keystroke encryption technology, designed to protect your identity and proprietary information at it's most vulnerable and critical point, the point of inception.
- **GuardedID** visually alerts you of "Clickjacking" attacks.
- **GuardedID** protects all Windows based applications: Word, Excel, Outlook, Databases, QuickBooks, Web-browsers, Instant Messenger Programs, etc.



STRIKEFORCE TECHNOLOGIES, INC.

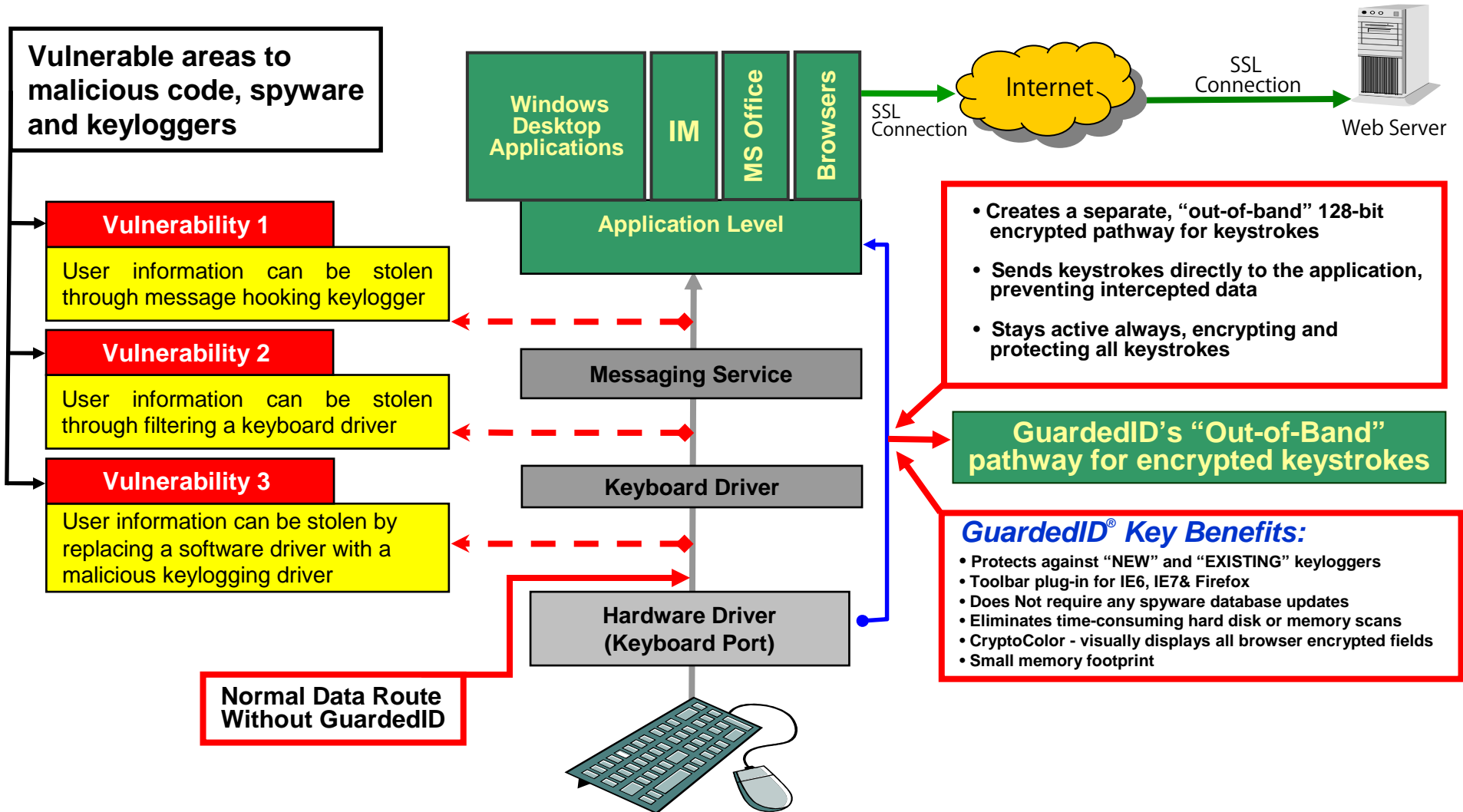
Problems That GuardedID Solves

- **Keyloggers / Malware** (favorite tool of the hacker/cybercriminal)
 - Zero Day Attack - Time gap between when a trojan is released and the AV guys update their definitions is between 28-32 days
 - Spread through infected Web sites, downloads, e-mails, MP3's, AVI's, etc.
 - Installation of spyware-malware without user knowledge
 - Invisible to existing anti-virus software
 - Infected employee emails, third-party devices
 - Insider threat
 - Polymorphic keyloggers automatically changing their signature
 - Unexpected keyloggers being installed by 3rd party hardware (Best Buy – digital picture frames, SeaGate/Maxtor Harddrives, McDonalds mp3 players, etc.)
 - Invisible iFrame attacks
 - Vulnerability between keyboard & browser



STRIKEFORCE TECHNOLOGIES, INC.

GuardedID – How It Works





STRIKEFORCE TECHNOLOGIES, INC.

GuardedID's Competitive Advantages

- **GuardedID** protects personal, financial and corporate information by encrypting a users keystrokes instantly when typed into desktop or online applications.
- **GuardedID** has been tested by independent labs and vetted by leading industry experts.
- **GuardedID** prevents the results of a Zero Day attack payload (keylogger).
- **GuardedID's** CryptoColor[®] (visual verification technology) shows a user that it's safe to type their personal or financial data.
- **GuardedID** has an SDK & robust license manager.
- Supports XP, 2000, 2003, Vista, IE & Firefox browsers.
- **GuardedID's** enhanced monitoring system will alert user of any embedded keyloggers (known or unknown) sitting in the computer.
- Small memory footprint, does not require database updates.



STRIKEFORCE TECHNOLOGIES, INC.

Screenshots: Threats & GuardedID Solution

- Keylogger stealing data from an unprotected browse
- Keylogger rendered useless when GuardedID is protecting the browser
- Keylogger stealing corporate data from MS Outlook
- Keylogger rendered useless when GuardedID is protecting MS Outlook or any other application
- Clickjack attack tricks user to click on an invisible link
- Clickjack attack was rendered ineffective because GuardedID warned the end user by making the invisible visible.



STRIKEFORCE TECHNOLOGIES, INC.

Threat: Keylogger steals data from unprotected browser

Business On Line - B181707080322 - Windows Internet Explorer
https://www.boi-bol.com/newhome
Bank of Ireland
Business On Line
NEW USER to Business On Line
Try our demo
Apply Now
MORE INFORMATION
PAYMENT NEWS
Help and Support
Download our brochure
Special offers from BT for BOL customers
OTHER BOI LINKS
BOI Group
Business Banking
Corporate Banking
Global Markets
www.bolstatus.com
B181707080322
© Copyright Bank of Ireland 2004 | Contact Us
Privacy Policy | Legal Docum

Every keystroke is easily copied by the keylogger!

Key Logger
JDOE<TAB>JOHNDOE1
About Clear Stop Close



STRIKEFORCE TECHNOLOGIES, INC.

Solution: Keylogger rendered useless by a GuardedID protected browser

Business On Line - B181707080314 - Windows Internet Explorer
https://www.boi-bol.com/newhome
GuardedID® On
Bank of Ireland
Business On Line
NEW USER to Business On Line
Try our demo
Apply Now
MORE INFORMATION
PAYMENT NEWS
Help and Support
Download our brochure
Special offers from BT for BOL customers
OTHER BOI LINKS
BOI Group
Business Banking
Corporate Banking
Global Markets
www.boistatus.com
B181707080314
© Copyright Bank of Ireland 2004 | Contact Us
Privacy Policy | Legal Docum

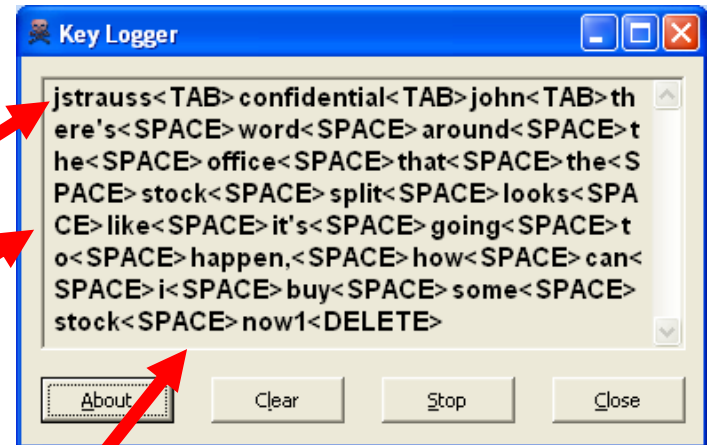
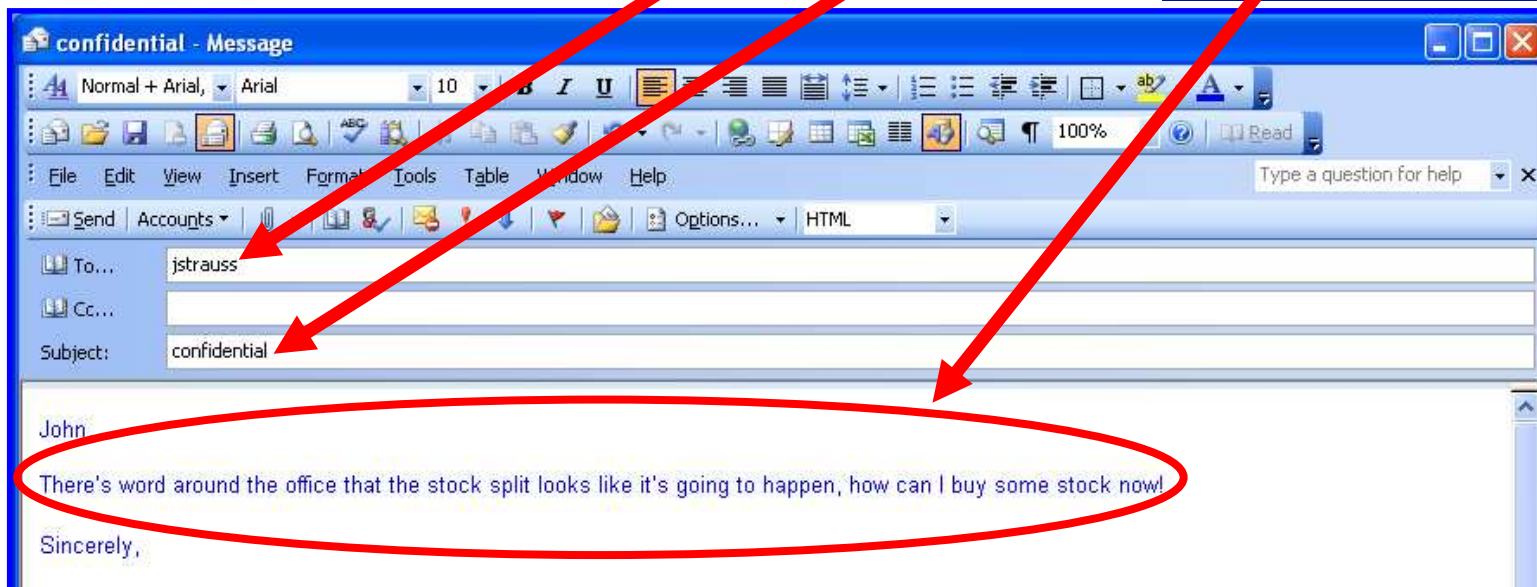
Key Logger
1234<TAB>56789012

- Keylogger receives fake keys
- Toolbar indicator green "On" light is on
- CryptoColor shows user fields are "Secure"



STRIKEFORCE TECHNOLOGIES, INC.

Threat: Keylogger stealing sensitive corporate data





STRIKEFORCE TECHNOLOGIES, INC.

Solution: Keylogger rendered useless from stealing sensitive corporate data

The screenshot displays an email client window titled "confidential - Message". The email header shows the recipient as "jstrauss" and the subject as "confidential". The email body contains the text "John," followed by a red circle around the sentence "There's word around the office that the pending stock split is going to happen, how do I buy some stock now?". Below this is "Sincerely,". A "Key Logger" window is overlaid on the top right, showing a list of captured keystrokes: "23456789< TAB>< TAB>012345678901< TAB> 234 56< RETURN>7890123< SPACE> 4567< SPACE> 8 9012< LEFT> 3< RIGHT>< SPACE> 456< SPACE> 7 89012< SPACE> 3456< SPACE> 789< SPACE> 0123 456< SPACE> 78901< SPACE> 23456< SPACE> 78< SPACE> 90123< SPACE> 45< SPACE> 6789012< SPACE> 345< SPACE> 67< SPACE> 8< SPACE> 901 < SPACE> 2345< SPACE> 67890< SPACE> 1234". Red arrows point from the keylogger window to the email header and the circled text. The keylogger window has buttons for "About", "Clear", "Stop", and "Close".



STRIKEFORCE TECHNOLOGIES, INC.

Threat: Clickjacking Attack

http://www.metx.net/mateus/gid/cj2/index2.html - Windows Internet Explorer

http://www.metx.net/mateus/gid/cj2/index2.html

File Edit View Favorites Tools Help

http://www.metx.net/mateus/gid/cj2/index2.html

This is Opacity Clickjacking, it works by hiding a different page above everything. Check out: [Placement Click-jacking](#)



abc NEWS SPECIAL REPORT
Hudson River
New York City
abc NEWS .com

PLAY



STRIKEFORCE TECHNOLOGIES, INC.

**Solution: Clickjacking attack
defeated by GuardedID**

http://www.metix.net/mateus/gid/cj2/index2.html - windows internet explorer

http://www.metix.net/mateus/gid/cj2/index2.html

File Edit View Favorites Tools Help

GuardedID Off Manage

http://www.metix.net/mateus/gid/cj2/index2.html

This is Opacity Clickjacking, it works by hiding a different page above everything. Check out: [Placement Click-jacking](#)

Merchandise's Gifts at Prices You'll Love

Your Account

Cart Your List

Amazon MP3 Support

REPORT

abc NEWS .COM

Buy MP3 song with 1-Click

Redeem a gift card or promotion code & view balance

Amazon MP3 Download

Make downloading so even easier with this application. [Get it from the Amazon.com](#)

Done

100%

GuardedID makes the invisible visible



STRIKEFORCE TECHNOLOGIES, INC.

GuardedID Protection Chart

Online Usernames & Passwords
Online Transactions Data Typed Into Keyboard
Online Clickjacking Attacks
Entering Sensitive Personal & Financial Information: Name, Address, Social Security/Phone Numbers, DOB, Bill Payees, etc.
Shopping: Websites: Amazon, eBay, PayPal, etc.
Entering Data into Social Networking Sites: MySpace, FaceBook, YouTube, etc.
Online Banking Websites: Banking, Financial Transactions, etc.
Music websites: Limewire, Kazaa, Itunes, etc.
Online E-mailing: GMAIL, AOL Email, MSN Email, etc.
Microsoft Desktop Programs: Word, Excel, PowerPoint, All Windows Programs, etc.
Microsoft Outlook & Outlook Express
Databases: Logins, Data Input
Accounting/Tax Filing Programs: QuickBooks, TurboTax, etc.
Instant Messaging: AIM, Windows Messenger, IRC, SKYPE, etc.



STRIKEFORCE TECHNOLOGIES, INC.

GuardedID Deployment & Admin Features

MSI Installer:

- Managed Installation process
- Pre-install application of license (no user intervention required for activation)
- AD Group Policy Deployment
- Software Update Service
- Any Windows MSI installation manager

Admin Features:

- MSI installer for managed installations
- Logging to standard Event Logs (Application)
- Automatic updates



STRIKEFORCE TECHNOLOGIES, INC.

GuardedID Logging & Updates

Logging:

- Logging to system Application event logs
- Compatible with current event monitoring tools
- Compromised machine alert warning (user & admin)
- Remote access to logs
- Remote monitoring of logs
- Alerts

Updates:

- Automatic update mechanism
- Clients can Update over Internet (GuardedID) update site, or
- Update from a Local update site
- Allows updates to be pre-tested within the enterprise for managed deployment.



STRIKEFORCE TECHNOLOGIES, INC.

GuardedID Reviews: (Testing Labs / Magazines / Industry Experts)

GuardedID 1.02 is an impressive update, it always succeeded on my test – it blocked every keylogger!

Neil Rubenking
PC Magazine

“GuardedID is an invaluable resource for anyone who banks, shops, & emails online”

Johnny May
Author & Identity Theft
Prevention Expert

GuardedID passed our test 100%. It really obtained to frustrate everyone of the keyloggers on our system!

O Estado de São Paulo
(Brazil's Leading Technical
Magazine)

"StrikeForce prevents identity theft by keylogging by never letting the thieves get a look at the keys. Over the past, StrikeForce has made its solutions available to corporate customers and now - thankfully - the company is taking it directly to the individuals who need the protection the most. GuardedID needs to be on every computer - and it's the smart PC manufacturer that will license the technology in order to market identity-safe PCs to its customers."

Chris Shipley
Demo.com

GuardedID really hid anything typed into our browser from the keyloggers that we put on our computer!

PC World (Brazil)

INFOLAB test results showed that GuardedID was sufficiently efficient in stopping the four keyloggers we tested it against!

INFOLAB Brazil
(Testing Lab)