

Multilayer e-mail security

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Jozef Kačala – Sales engineer EMEA, APAC

Multilayer email security

Agenda



E-MAIL usage



Importance of E-MAIL protection



E-MAIL born attacks



GFI MailEssentials + demo

E-MAIL usage

E-mail is the most widely used Internet function across the planet.

3.8 billion email users worldwide

1.75 e-mail accounts per user

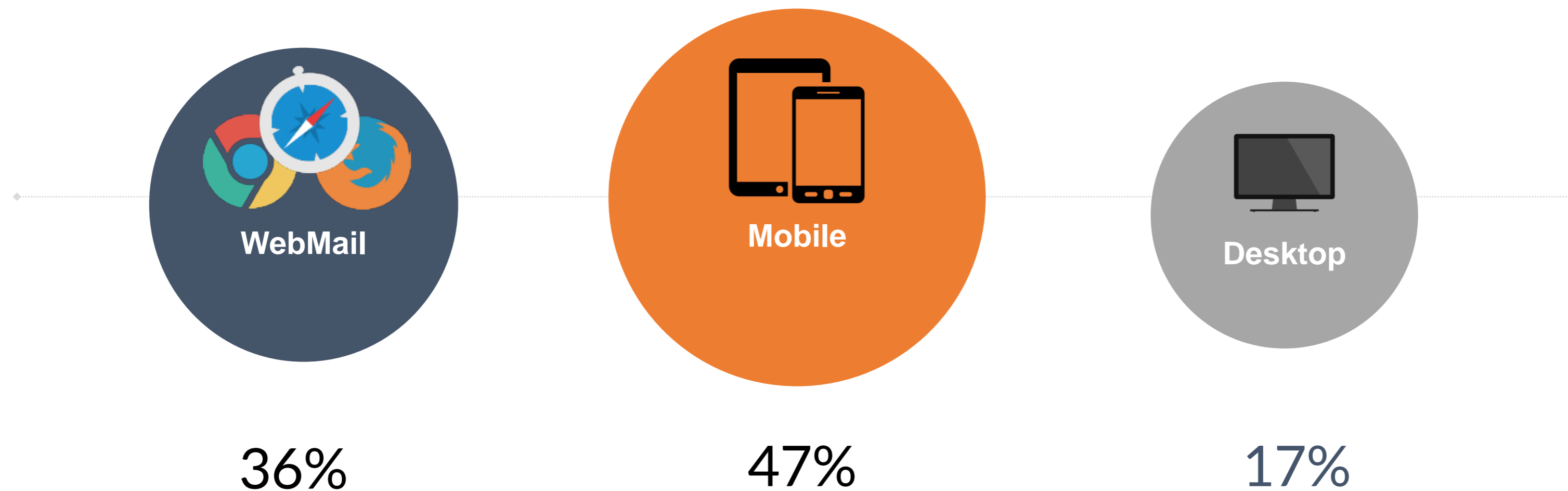
212 billion business email sent every day

2 million e-mails sent every second

91% of people check their e-mail daily

E-MAIL usage

- People check their email an average of **74 times a day!**
- People are spending anywhere from **25 minutes to 2 hours a day** actively involved in their inbox.



E-MAIL born attacks

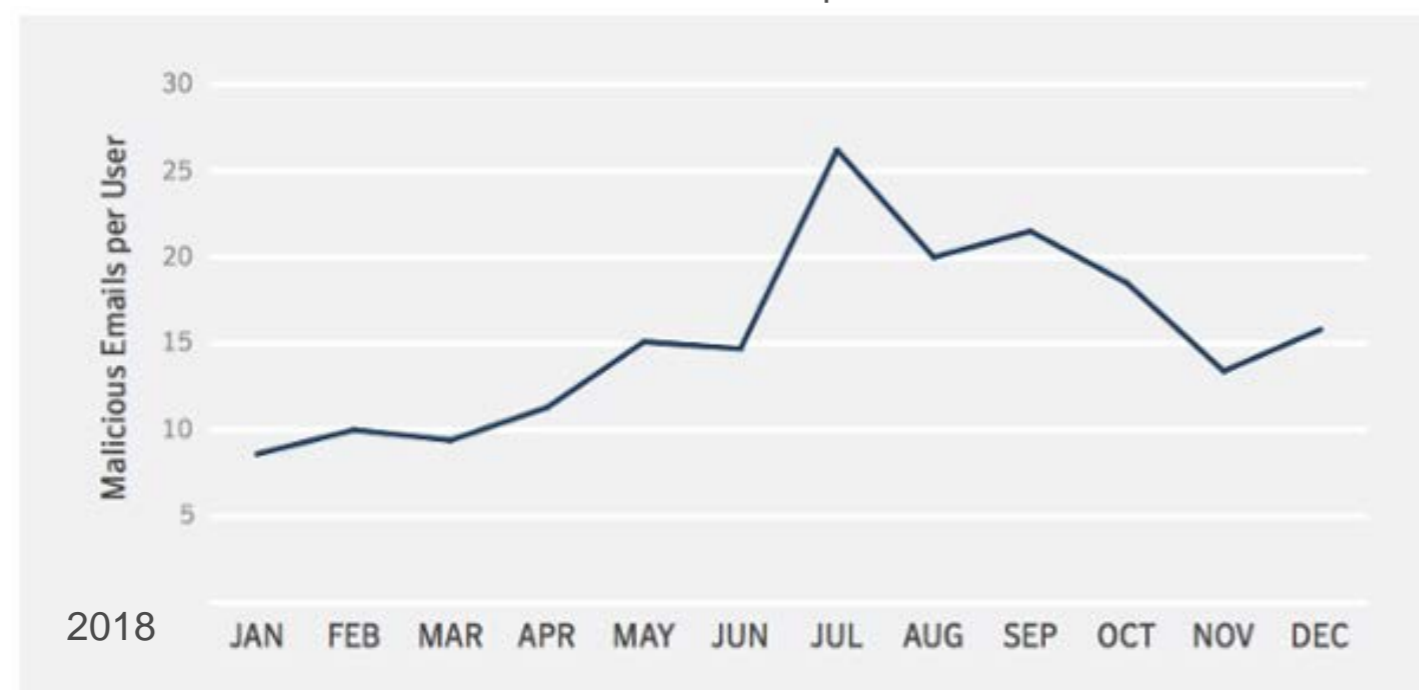
E-mail is #1 delivery vehicle for malware

60% of emails are spam

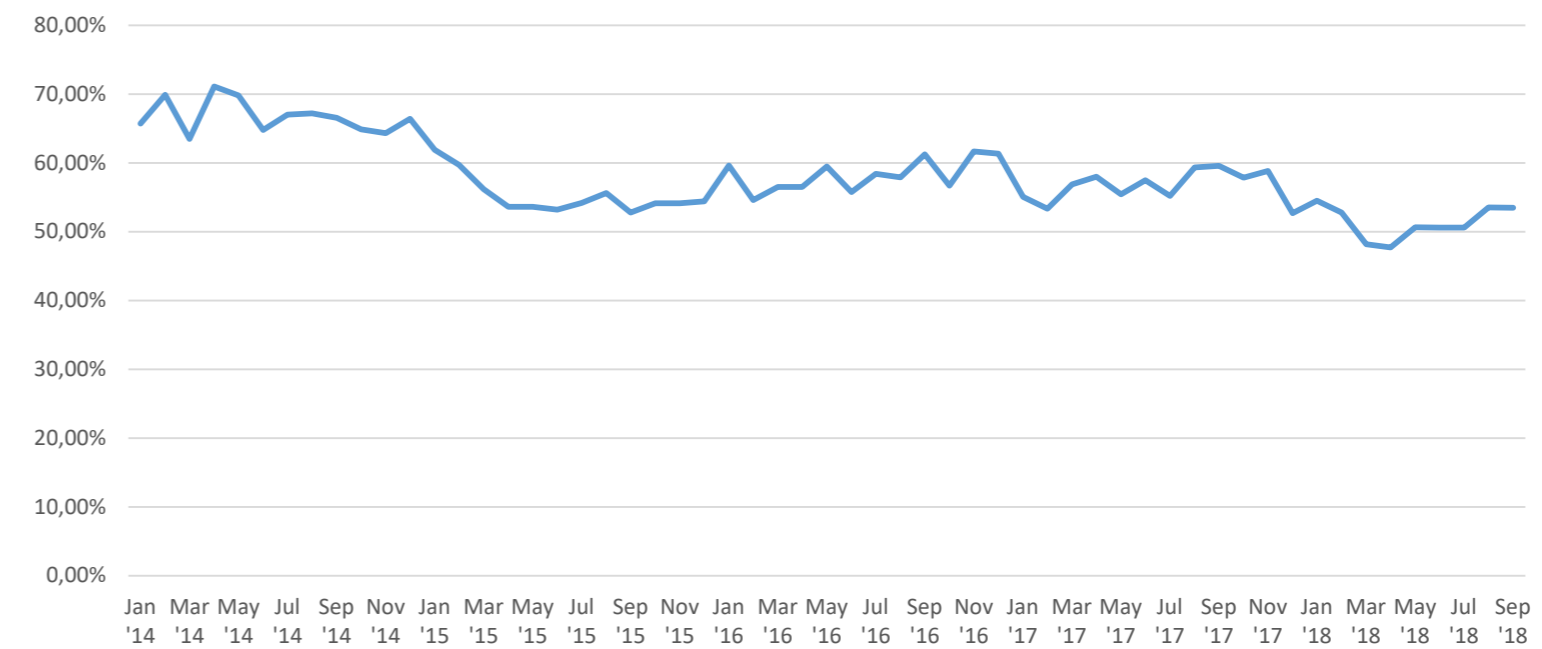
48% of organisations experienced phishing attacks

92.4% of malware is delivered via e-mail

Malicious e-mail per user



SPAM % over the years



E-MAIL born attacks

As one of the most popular services, e-mail has become a major vulnerability to users and organizations.


- | | |
|-----------|---------------------------|
| Phishing | Adware |
| Whaling | Spam |
| Pharming | DoS |
| Spyware | Man-in-the-middle attacks |
| Scareware | Credential reuse |



The user



The security system is only as strong as its weakest point

SECURITY =  + 



SECURITY =  +  +  +  +  + 

Importance of e-mail protection

Save resources

Prevent brand damage

Email is the most common IT security threat for organizations

Email-based attacks affect the entire organization

Save time

Save money

Email-based threats are evolving and increasing, putting more organizations at risk every year

Basic anti-spam email filters are not enough



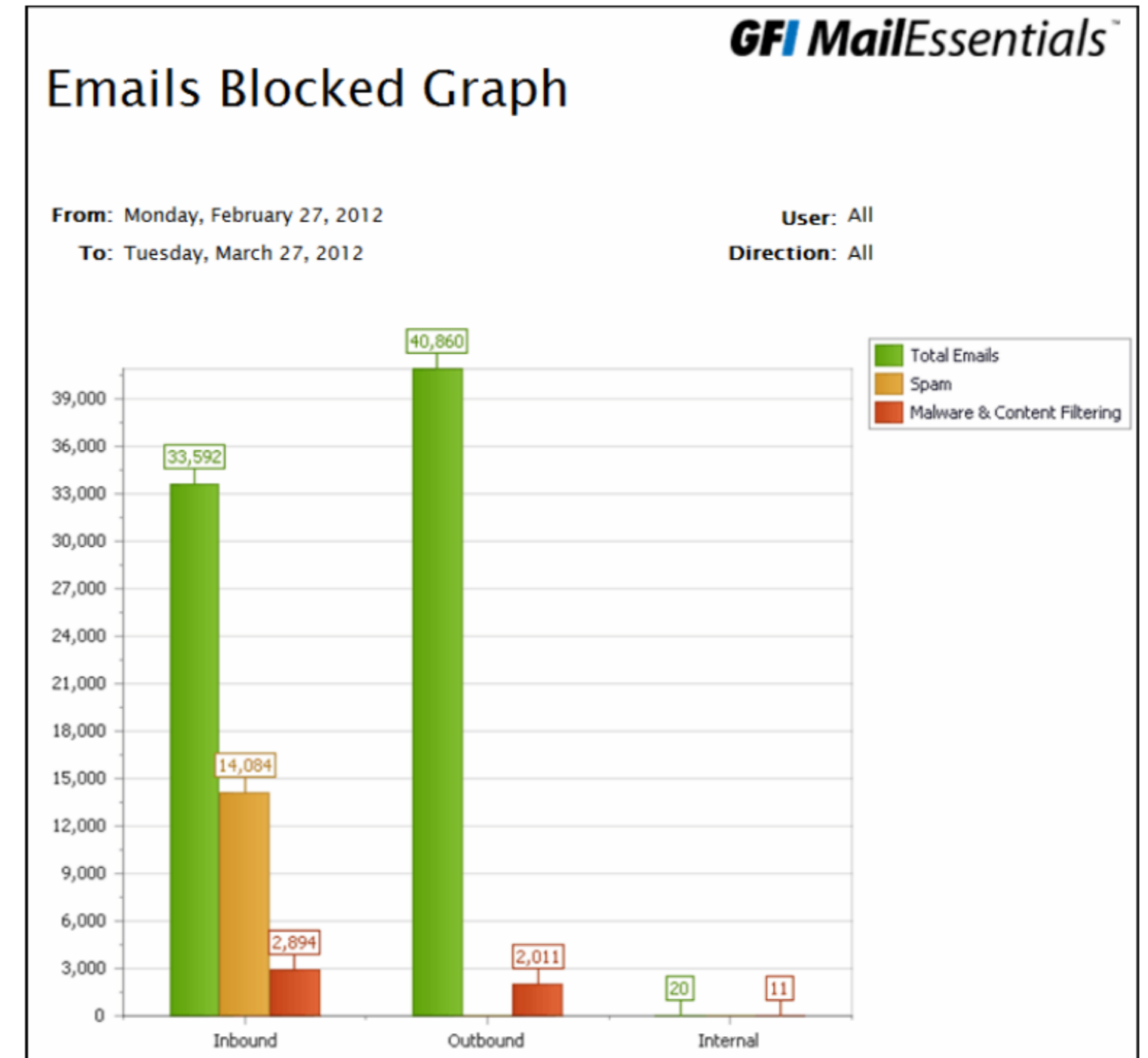
GFI MailEssentials[®]

Malware protection

Unwanted (spam) e-mail protection

E-mail management

Content control



The user



Up to 99% spam filtered

The security system is only as strong as its weakest point

Malware protection

Five antivirus engines

Trojan and executable scanner

E-mail exploit engine

HTML sanitizer

Unwanted e-mail protection

15 anti spam engines

Outlook integration

Granular Whitelist and Blacklist

E-mail Management

Disclaimer management

E-mail monitoring functions

Module for automatic replies

Content control

Filtering incoming, outgoing and internal content

Granular ruleset against users/groups

Decompression and attachment filtering

Advanced content filtering within documents

E-mail flow in GFI MailEssentials

- 1 SMTP level filters (Directory Harvesting, Greylist, IP Blocklist & IP DNS Blocklist)
- 2 Malware and content filtering scans
- 3 List server check
- 4 Other anti-spam scans
- 5 Auto replies (if configured)
- 6 E-mail monitoring (if configured)
- 7 New senders filter check



If email is not blocked by any scanning or filtering engine, it is sent to the user's mailbox.

GFI MailEssentials – best practices

- Place IP blocklist on the first place so it will run during SMTP transmission rather than after the IP whitelist.
- When MS Exchange is used, best is to install GFI MailEssentials directly on MS Exchange servers with HUB transport role, Mailbox role or edge server role
- Turn on bayesian filter after creating sufficient spam and ham database



Configure the priority of spam filter execution

Specify Filter Priority

Name	Priority	Filter Level		
IP Blocklist	1	SMTP Data	↑	↓
Greylist	2	SMTP Data	↑	↓
IP Whitelist	3	Full Email	↑	↓
Anti-Spoofing	4	Full Email	↑	↓
Sender Policy Framework	5	Full Email	↑	↓
Whitelist	6	Full Email	↑	↓
Personal Whitelist	7	Full Email	↑	↓
Directory Harvesting	8	Full Email	↑	↓
Anti-Phishing	9	Full Email	↑	↓
SpamRazer	10	Full Email	↑	↓
Keyword Whitelist	11	Full Email	↑	↓
Email Blocklist	12	Full Email	↑	↓
Personal Blocklist	13	Full Email	↑	↓
IP DNS Blocklist	14	Full Email	↑	↓
URI DNS Blocklist	15	Full Email	↑	↓
Bayesian Analysis	16	Full Email	↑	↓
Header Checking	17	Full Email	↑	↓
Spam Keyword Checking	18	Full Email	↑	↓
Language Detection	19	Full Email	↑	↓

Default Settings

GFI MailEssentials – Live demo

GFI Software™

Aurea SMB Solutions

Contact Us



salescz@gfi.com



www.gfi.com