Anti-Spam Mythology: Testing Trumps PR

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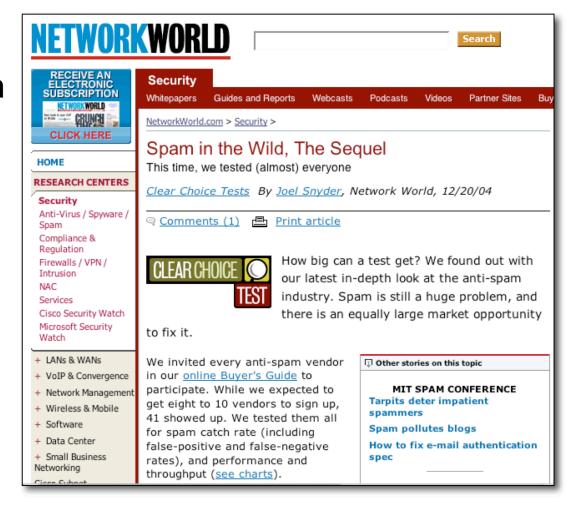
Agenda

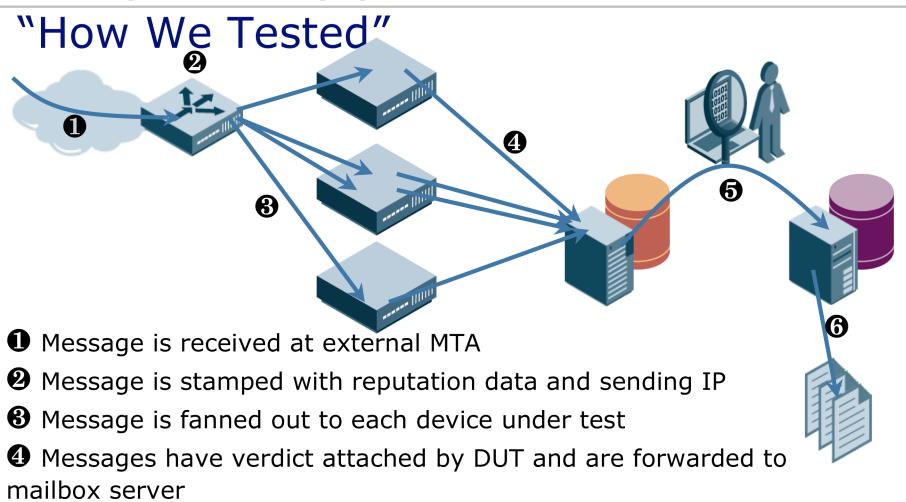
- What's all this testing nonsense anyway?
- Top Myths in Running Enterprise Anti-Spam

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Where Did All This Come From?

- Network World anti-spam tests in Aug/2003 and Dec/2004
- First (and only) public test using real message streams





- **6** Master set is combed through by human to classify as spam/not-spam/don't-know; FPs are classified as 1 to 5 by "badness"
- **6** Many SQL queries later, a report is put together (partially by hand)

"When We Tested"

- Three tests in First Half of 2005
- Starting Second Half of 2005, approximately quarterly testing (17 runs as of Feb/2008)
- Each test looks at between 15 and 45 scenarios
- …and a continuing test plan through 2008

"Who We Tested"

- Each run had different participants, but the data include runs from...
- Abaca, Barracuda, Brightmail, Ciphertrust, Cloudmark, Commtouch, Exchange 2007, Frontbridge, GFI, Heluna, Ironport, MailShell, Postini, Proofpoint, SonicWALL, Sophos, SpamStopsHere, StarEngine, Threatwall, Trend Micro, Tumbleweed, Untangle, Watchguard and 2 others that don't have names

Myth 1:

All Products Are The Same

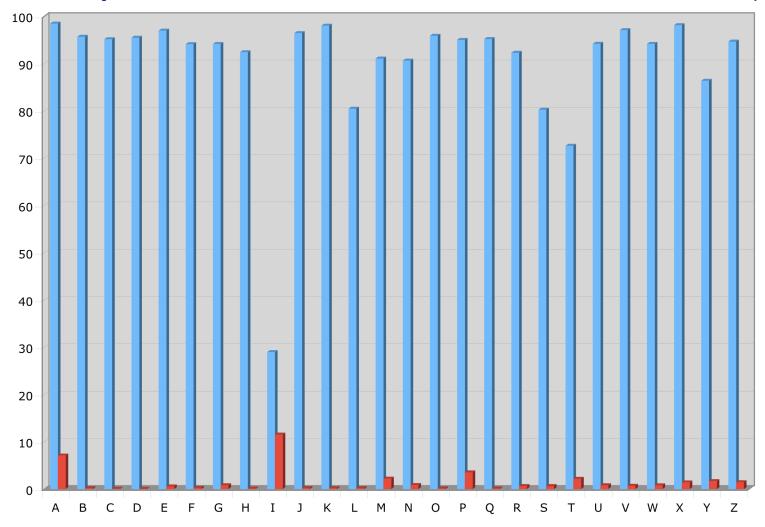
- More specifically: "All Spam Engines are the same. You should buy based on features."
- Why? Lots of reasons...



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Reality: Different Spam Engines Perform Differently

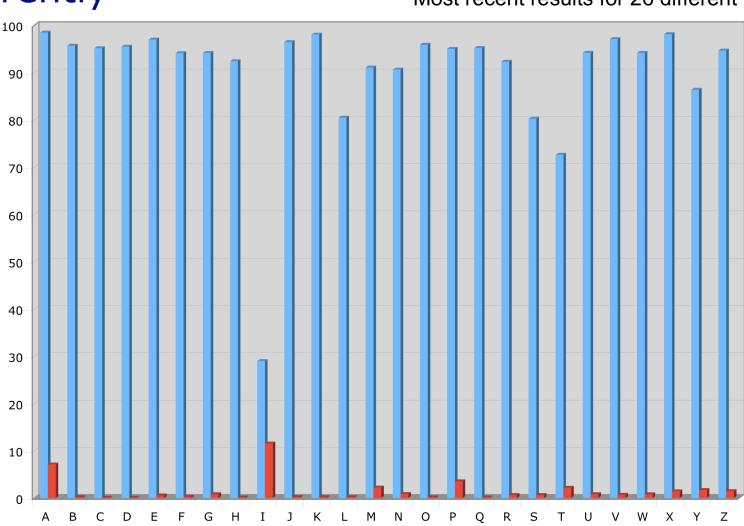
Most recent results for 26 different products







Securing Email, Messaging Platforms and Mobile Devices Reality: Different Spam Engines Perform Differently Most recent results for 26 different products

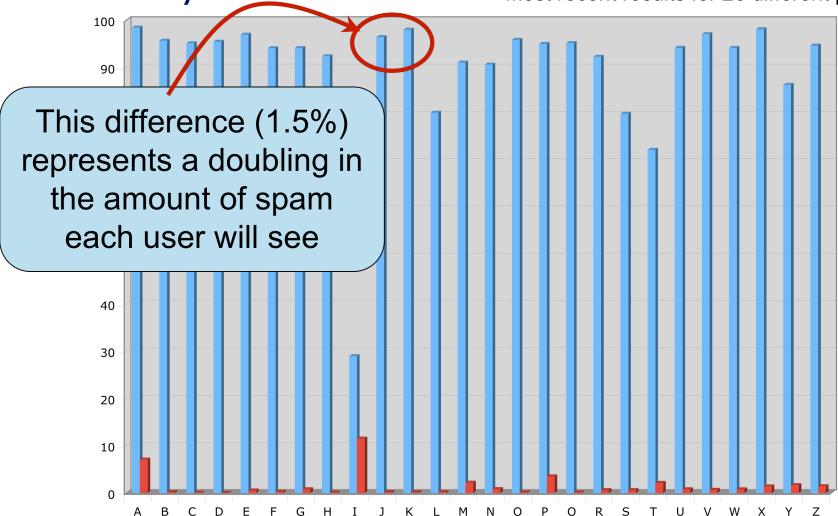


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Reality: Different Spam Engines Perform

Differently

Most recent results for 26 different products

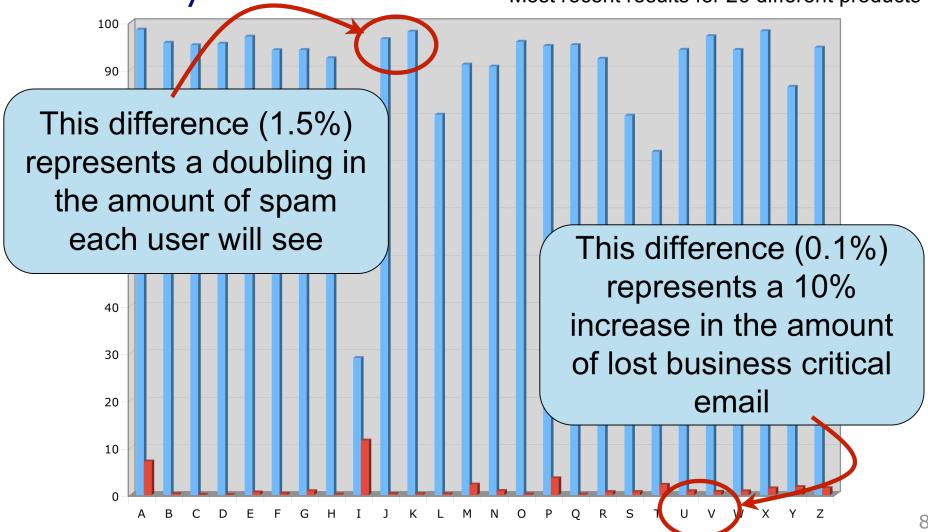


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Reality: Different Spam Engines Perform



Most recent results for 26 different products



Myth 2: Great Products Stay Great

... And Bad Products Stay Bad

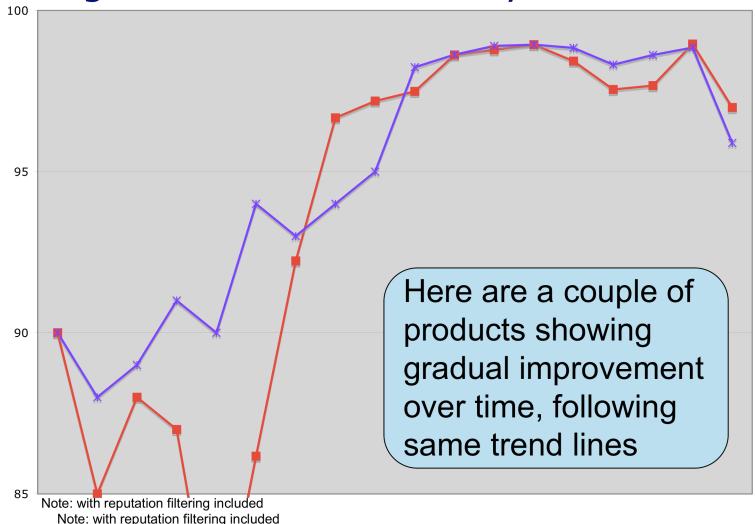


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Reality:

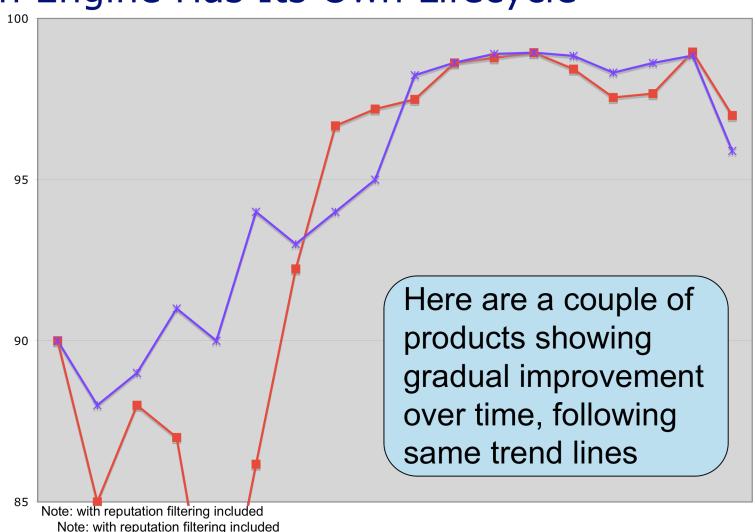






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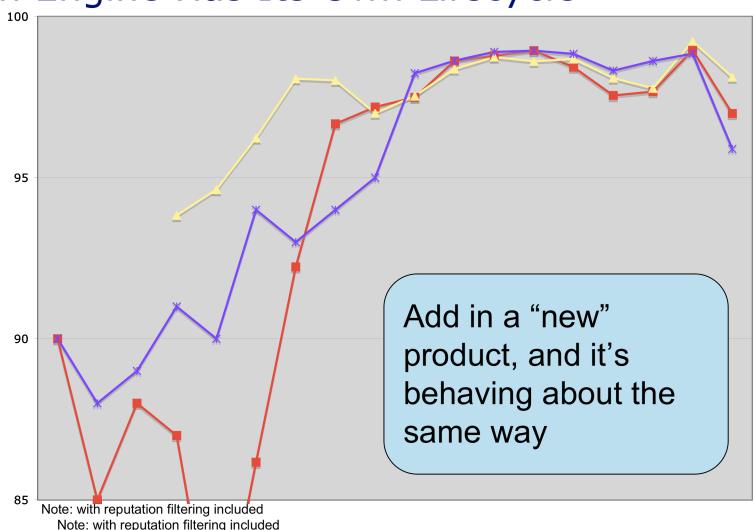
Reality:





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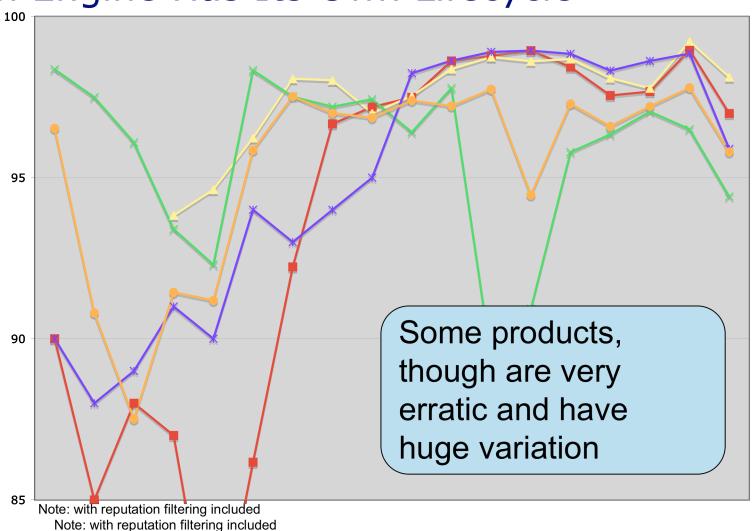
Reality:





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Reality:





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Reality:



Myth 3:

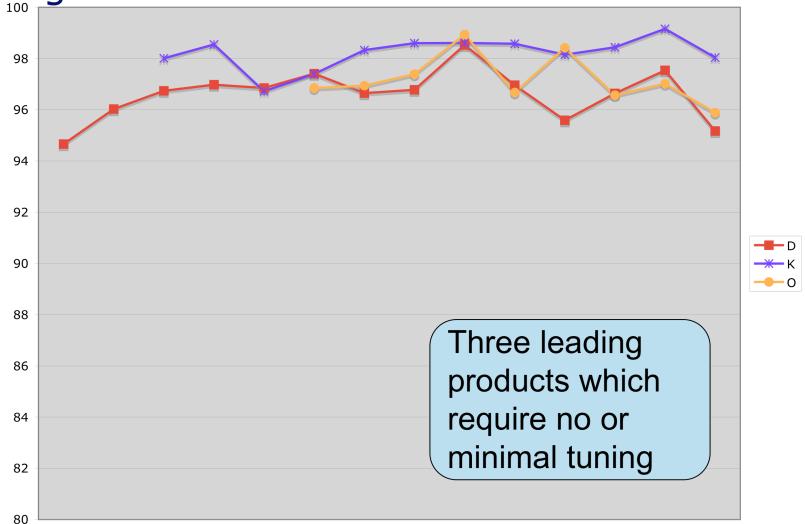
Training And Tuning Products Is Good

- Where does this one come from?
 - Technology Guru installs Spam Assassin
 - Spam Assassin requires training
 - Technology Guru is happy
 - Ergo: Spam Filtering requires Training
 - Q.E.D.

Tuning is a spectrum... all products allow for some tuning. We're just differentiating between levels of adjustment.

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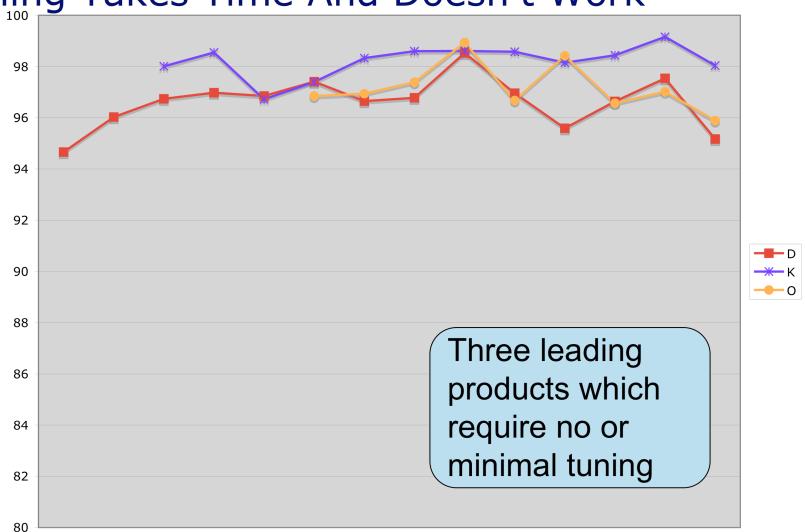
Reality:





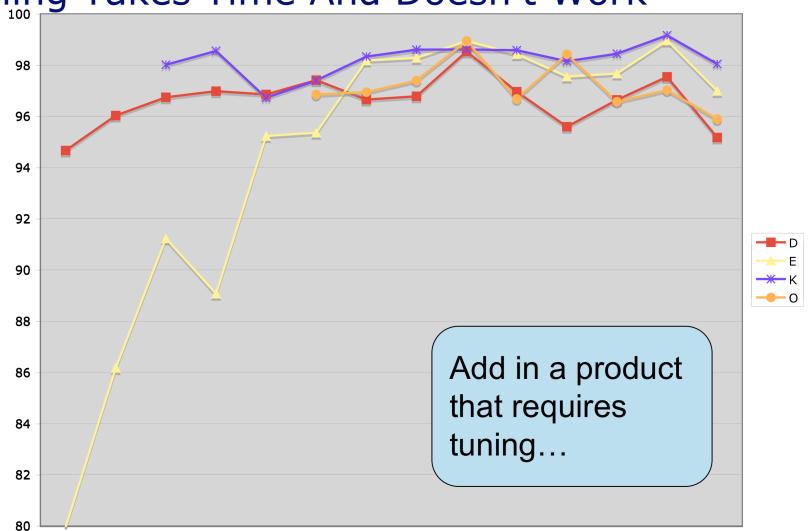
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Reality:



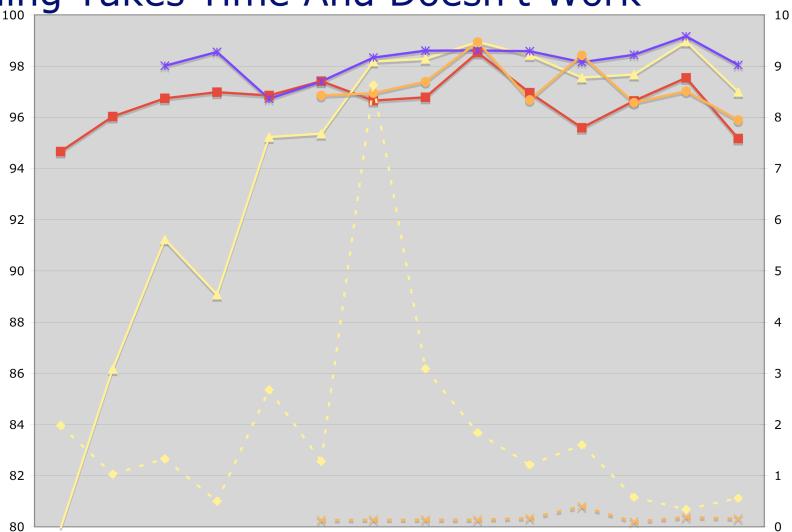
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Reality:



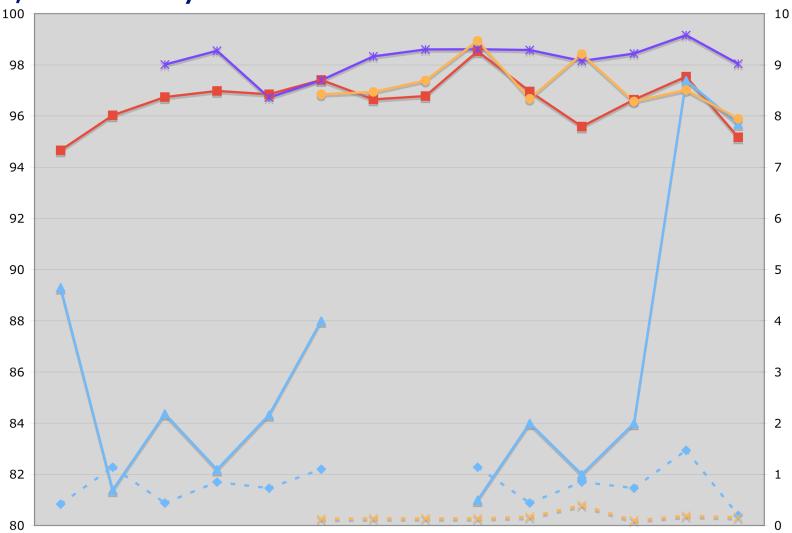
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Reality:



More Reality:

OK, Let's Try A Different Product



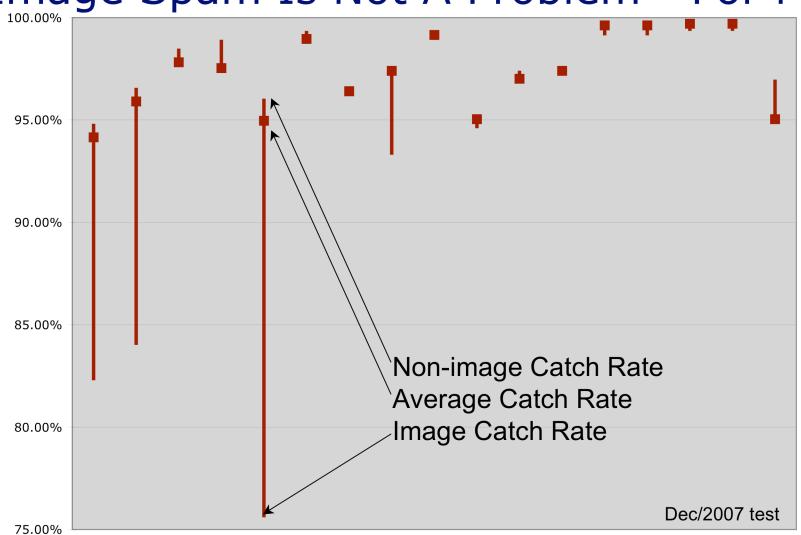


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Myth 4: Image Spam Is A Problem

- Where does this one come from?
 - Image spam is invented
 - Some products can't handle it
 - Strategy? Send out a press release explaining how awful life is, and maybe your customers will let you live while you fix it

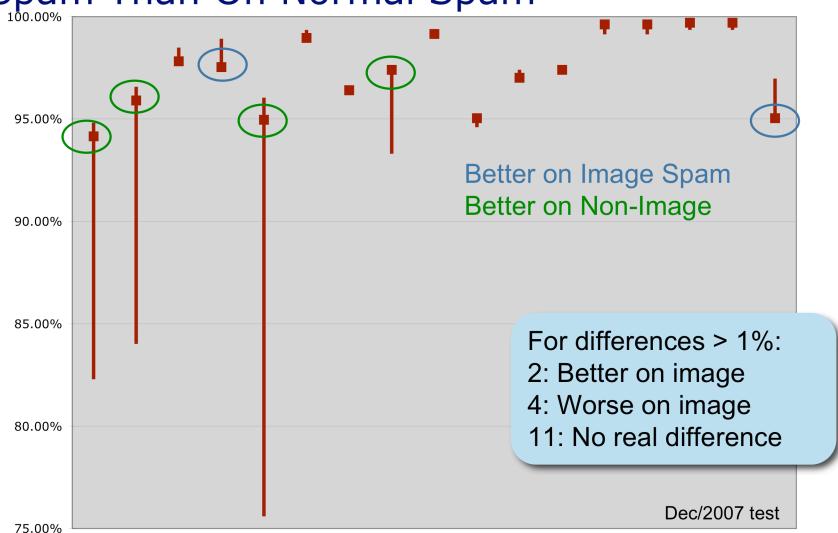
Image Spam Is Not A Problem - For Most

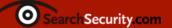




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In Fact, Some Products Do Better On Image Spam Than On Normal Spam







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OK, You Got Me...



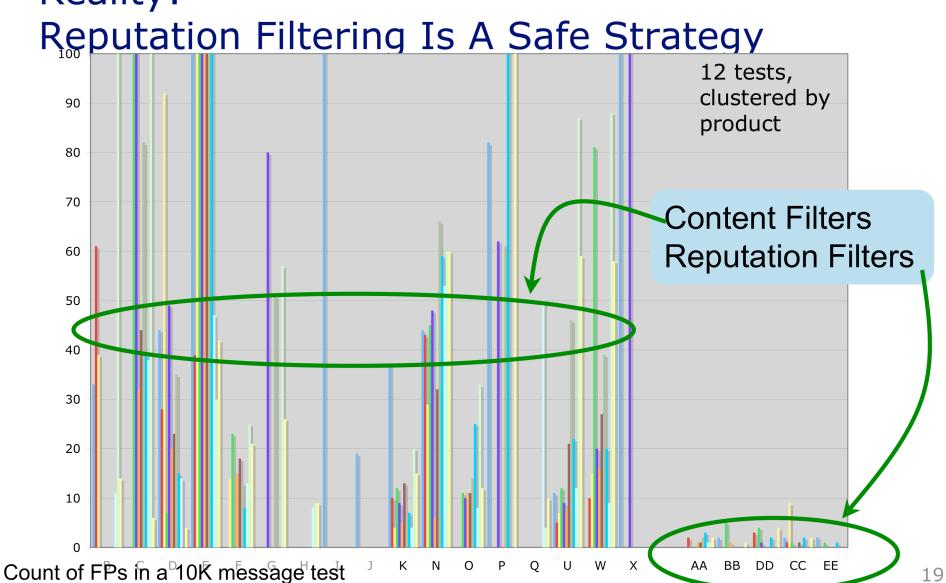
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Myth 5: Reputation Filtering Is Dangerous

• ... and leads to false positives

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Reality:

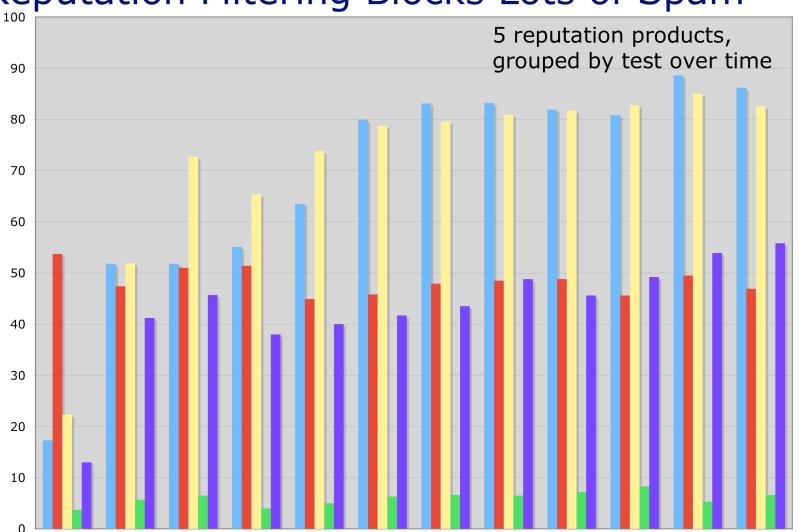


Myth 6: You Should Accept The Mail, And Then Apply Reputation Filtering

- Where does this one come from?
 - Some products can't do reputation filtering because they don't have their own SMTP receiver
 - These products grovel through headers and simulate reputation filtering
 - Other products use reputation as one factor in deciding to mark mail as "Spam"

Reality:

Reputation Filtering Blocks Lots of Spam



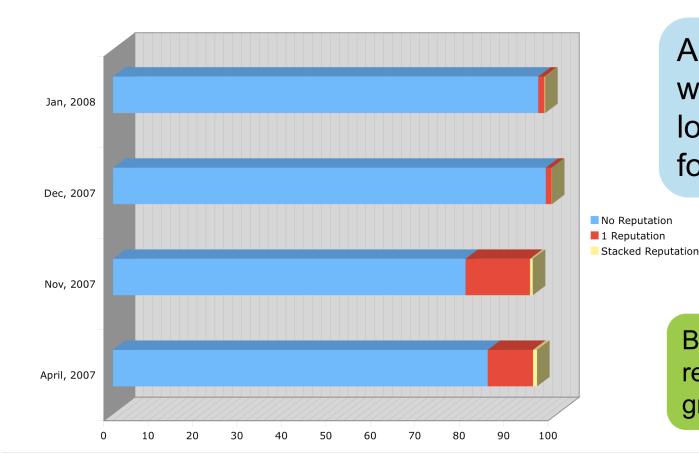




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Interesting Side Question: Should I Stack Reputation Services?

• After all, if one is good, aren't two better?



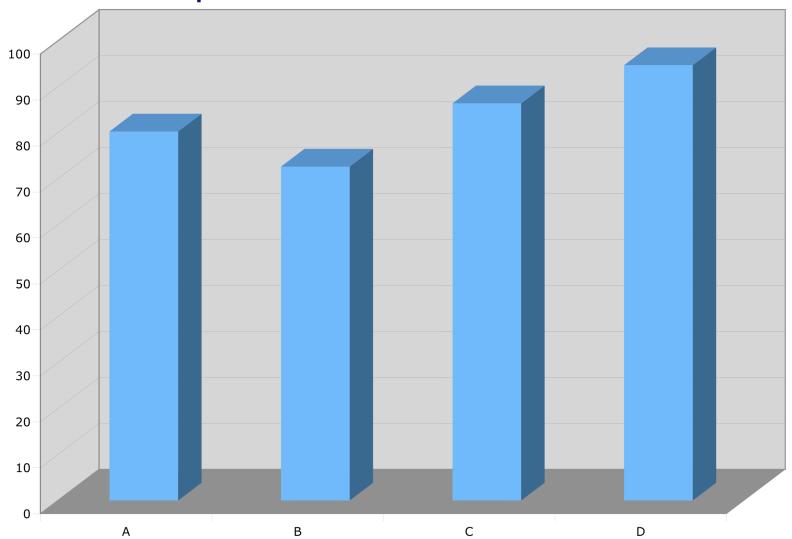
Answer: Not really worth it for traffic load and potential for false positives

But this doesn't really reflect the value of graylisting...

Myth 7: UTM Is A Good Way To Do Anti-Spam

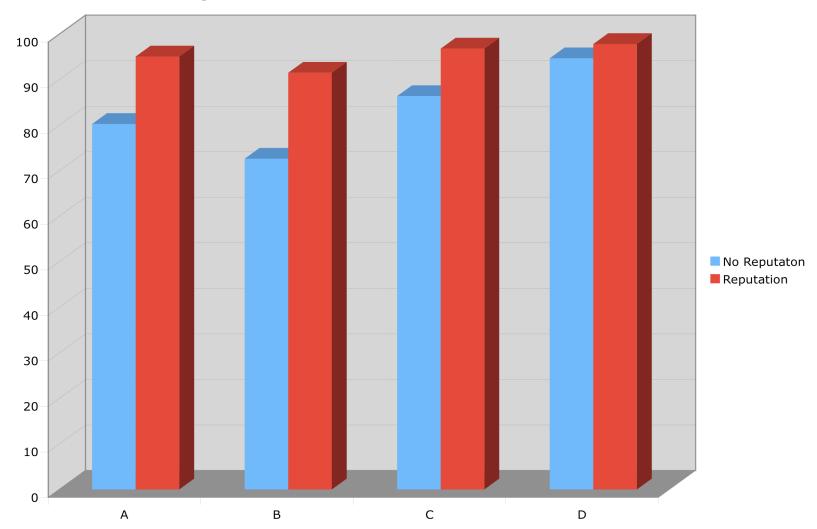
- UTM promises to make life simple by centralizing and consolidating everything into a single place
- Several UTM products have anti-spam built into them
- So this must work, right?

UTM Anti-Spam As Tested Doesn't Work





UTM Anti-Spam As Tested Doesn't Work





UTM Anti-Spam As Tested Doesn't Work



Thanks!

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