

Email Authentication Sana D. Coleman Bureau of Consumer Protection U.S. Federal Trade Commission <u>www.ftc.gov</u>

The FTC's Role in the Fight Against Spam

- The FTC has played a significant and long standing role in the study of, and fight against, spam.
- The FTC has a threefold strategy to combat spam.

Threefold Strategy to Combat Spam

- Enforcement
- Education
- Research

Threefold Strategy to Combat Spam

Enforcement

 The FTC has brought 66 spam related cases against over 160 individuals and firms.

Threefold Strategy to Combat Spam

Enforcement (an International Perspective)

- (2002) U.S./Canadian Sweep Targeting Deceptive Spam and Internet Fraud
- (2004) The London Action Plan On International Spam Enforcement Cooperation
- (2005) FTC and Spain's Agencia Española de Protección de Datos (AEPD) signed a bilateral MOU to promote enhanced cooperation and information-sharing on spam enforcement activities.

Threefold Strategy to Combat Spam

Education

- Consumer education <u>http://www.ftc.gov/spam/</u>
- Global education
 - (e.g., "Operation Secure Your Server" (2004))

Threefold Strategy to Combat Spam

- Research
 - Spam Harvest Study (2002)
 - Spam Forum 2003
 - False Claims in Spam Report (2003)
 - Do Not Email Registry Report (2004)

Do Not Email Registry Report

In the CAN-SPAM Act of 2003, Congress required the FTC to prepare a report about the possible creation of a Do Not Email Registry Report.

Do Not Email Registry Report

- Conclusion: Without a system in place to authenticate the origin of email messages, a Do Not Email Registry would:
 - fail to reduce the burdens of spam,
 - and, possibly, increase spam, as illegal marketers would use it as a DO Spam Registry.

The Underlying Problem Identified in the Report

- Solving the spam problem begins with recognizing that spammers are essentially anonymous.
- The current email system does not require accurate routing information, except for the intended recipient of the email.

The Resulting Problem

- A spammer can falsify:
 - portions of the header,
 - the entire header of an email, and
 - spoof the originating IP address.

What is the Solution?

- This is not a problem that lends itself well to governmental solution. The best hope is for the marketplace to develop and employ technological solutions to prevent spammers from hiding behind a technological veil.
- Domain-level email authentication is one promising technological tool, but it is not a silver bullet.

How Does Email Authentication Work?

- Private market proposals would verify the "ftc.gov" portion of the email address: abc@ftc.gov.
- but would not authenticate that the message came from the particular email address "abc" at this domain.

Email Authentication Summit

Email Authentication Summit Sponsored by the Federal Trade Commission and the National Institute of Standards and Technology



November 9-10, 2004 from 8:30 a.m. to 5:30 p.m. Federal Trade Commission, Conference Center 601 New Jersey Ave., N.W., Washington, D.C. 20001

www.ftc.gov/bcp/workshops/e-authentication/index.htm

Email Authentication Summit

- Two-day Summit
 - Day 1: Over 300 total attendees
 - Day 2: Over 250 total attendees
 - 60 panelists, from the U.S. and abroad, including representatives from Microsoft, Yahoo!, Cisco Systems, Inc., America Online, and Earthlink.

Summit Panels

- Back to Basics an overview of email authentication and why it is important
- Policy Framework- policy considerations, including privacy, antitrust, and intellectual property considerations
- The Proposals Cryptographic approaches, and Internet protocol/domain based approaches

Summit Panels

- Testing the status of industry testing of various email authentication standards
- Possible Loopholes a discussion of how spammers would be able to circumvent the various authentication methods (e.g., zombie drones)
- Real World Effects how authentication will impact bulk email marketers and small ISPs

Summit Panels

- Global Impact an overview of international considerations for the adoption of a domain-level email authentication standard
- Moving Towards Implementation a candid discussion with the proponents of various standards about the next steps required to adopt an email authentication standard
- The Role of Accreditation domain level email authentication alone is not a silver bullet. Other tools that would help to indicate whether a sender is reputable are also important.

Summary of our Concerns

- Low cost to implement
- Minimal technical requirements for operators and end users
- No interference with flow of global email traffic
- Low false positives
- Low false negatives
- No undue burden on small ISPs

Summit Success

The proponents of the different proposals agreed to an open approach with respect to publicly sharing their testing data. As a result, the computer analyst community and others, in the U.S. and abroad, will have access to the testing data.

FTC's Future Role

- To continue to monitor and spur the development of a widely adopted email authentication standard or standards.
- To create and manage a publicly available website for the posting of certain email authentication testing data.
- To collect hard data (e.g., the FTC has recently used its compulsory process to obtain testing and implementation data from ISPs.)

The FTC's Future Role

Next Steps

- Additional possible measures are identified in the DNE Registry Report.
- These measures are viewed as an "if all else fails" approach.

Contact Information

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