Responsible Submitter
An SMTP Service Extension

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Harry Katz

Microsoft Corp.

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Sender ID Overview

- Merger of elements of Sender Policy Framework (SPF) and Caller ID for E-mail
- 3 Internet Drafts
  - draft-ietf-marid-core-02
    - Algorithm for determining the purported responsible address and for evaluating results of spoof test
  - draft-ietf-marid-protocol-00
    - The SPF record format and test protocol
  - draft-ietf-marid-submitter-02
    - SMTP Service extension for indicating the responsible submitter of an e-mail message

SUBMITTER

- Extension to SMTP MAIL command
- Lets SMTP client declare purported responsible address (PRA) in an SMTP command
- Lets SMTP server perform spoof checking before message body is sent across the Internet
- Must match the PRA as derived from RFC2822 message headers

Example: Mail Submission

S: 220 alumni.almamater.edu ESMTP server ready
C: EHLO example.com
S: 250-alumni.almamater.edu
S: 250-DSN
S: 250-AUTH
S: 250-SUBMITTER
S: 250 SIZE

> SUBMITTER extension advertised in EHLO response

C: MAIL FROM:<alice@example.com> SUBMITTER=alice@example.com
S: 250 <alice@example.com> sender ok
C: RCPT TO:<bob@alumni.almamater.edu>
S: 250 <bob@alumni.almamater.edu> recipient ok
C: DATA
S: 354 okay, send message
C: From: alice@example.com
C: (message body goes here)
C: .
S: 250 message accepted
C: QUIT
S: 221 goodbye

> SUBMITTER parameter added to MAIL command

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Example: Mailing List

S: 220 example.com ESMTP server ready

C: EHLO listexample.com

S: 250-example.com

S: 250-SUBMITTER

S: 250 SIZE

> SUBMITTER extension advertised in EHLO response

C: MAIL FROM:<owner-list1@listexample.com>
    SUBMITTER=owner-list1@listexample.com

S: 250 <owner-list1@listexample.com> sender ok

> SUBMITTER parameter added to MAIL command

C: RCPT TO:<alice@example.com>

S: 250 <alice@example.com> recipient ok

C: DATA

S: 354 okay, send message

C: Received By: ...

C: From: bob@woodgrove.com

C: Sender: owner-list1@listexample.com

> Sender header added to message

C: To: list1@listexample.com

C: (message body goes here)

C: .

S: 250 message accepted

C: QUIT

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S: 221 goodbye

Example: Mobile User

S: 220 alumni.almamater.edu ESMTP server ready

C: EHLO consolidatedmessenger.net

S: 250-alumni.almamater.edu

S: 250-DSN

S: 250-AUTH

S: 250-SUBMITTER

S: 250 SIZE

C: MAIL FROM:<alice@example.com>
    SUBMITTER=alice@consolidatedmessenger.net

S: 250 <alice@example.com> sender ok

C: RCPT TO:<bob@alumni.almamater.edu>

S: 250 <bob@alumni.almamater.edu> recipient ok

C: DATA

S: 354 okay, send message

C: Sender: alice@consolidatedmessenger.net

C: Received By: ...

C: (message body goes here)

C: .

S: 250 message accepted

C: QUIT

S: 221 goodbye

SUBMITTER extension advertised in EHLO response

SUBMITTER parameter added to MAIL command

Sender header added to message

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Changes in -02 Version

- Section 4.1
  - Strengthened conformance requirements; SUBMITTER now mandatory when MAIL FROM differs from PRA and recommended when MAIL FROM is identical to PRA.
  - Removed wording about making use of SUBMITTER extension mandatory at some future time.
  - Moved the procedural descriptions for initial message submission and subsequent message retransmission to the non-normative Examples section.
- Section 4.2
  - Removed the wording about procedures to be used at some future time when use of the SUBMITTER extension becomes mandatory
  - Significant rewording to simplify and clarify the verification process and error messages.
- Section 4.3
  - Clarified the wording to include all cases of message transmission to a non-SUBMITTER aware server.
- Section 5
  - Changed example addresses to be compliant with RFC 2606
- Section 6
  - Rewording and focus on security considerations specific to this proposal