DMARC Working Group

IETF 91 – Honolulu, Hawai'i

Co-chairs: Ned Freed & Tim Draegen

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Agenda

1. Administrivia: scribes/jabber, blue sheets, goals

2. WG Milestone/Phase overview (chairs) 5 minutes

   - http://trac.tools.ietf.org/wg/dmarc/trac/wiki

3. Milestone 1 review (Tim Draegen) 20 minutes

   - http://trac.tools.ietf.org/wg/dmarc/trac/wiki/MilestoneOneWiki

4. Milestone 2 discussion & kick off (Tim Draegen) 20 mins

   - http://trac.tools.ietf.org/wg/dmarc/trac/wiki/MilestoneTwoWiki

5. AOB 10 minutes

New WG: What's This For?

http://datatracker.ietf.org/wg/dmarc/charter/

DMARC in a nutshell: brings stable domain-level identifiers to email.

WG chartered to pursue 3 tracks:

1. Address interoperability issues with DMARC and "indirect email flows"

2. Review and improve base DMARC specification

   - (base spec submitted as Independent Submission to become Informational RFC)

3. Develop BPC/Usage Guide

WG Phases

http://trac.tools.ietf.org/wg/dmarc/trac/wiki

Three big phases, in order:

1. Collect interoperability issues between DMARC and indirect email flows + possible solutions.

2. Proposed specification changes that improve interoperability.

3. Last phase will review and possibly refine DMARC base spec.

Milestone Overview

http://trac.tools.ietf.org/wg/dmarc/trac/roadmap

Five milestones, in order:

1. Document interop issues with DMARC and indirect email flows

2. Deliverable #1: Interop issues + possible methods to address

3. Draft DMARC BCP/Usage Guide

4. Deliverable #2: DMARC improvements to better support indirect email flows

5. Deliverable #3: Changes to DMARC base spec + DMARC BCP/Usage Guide

Milestone 1 Review

http://trac.tools.ietf.org/wg/dmarc/trac/wiki/
MilestoneOneWiki

Collect information on every interoperability issue between DMARC and indirect email flows.

DMARC already in the wild for a good amount of time. Should be able to catalog and move on.

In addition to everything we know about how SPF and DKIM can break.. (next slide)

Milestone 1 Review

http://trac.tools.ietf.org/wg/dmarc/trac/wiki/MilestoneOneWiki

- Automatic aliasing

  - mailbox-level forwarding

  - Sieve level forwarding

  - MUA forwarding

  - MTA forwarding

  - multi forwarding

- Sieve modification

- Mailing lists

- "Unrelated" relay

- Use of freemail in commercial context

- Newspaper sites and similar.

- MX gateway/scanning/backup services

- Combinations of indirect flows

- Calendar invites

- EAI (group syntax while in transition to SMTPUTF8)

Milestone 1 Review

http://trac.tools.ietf.org/wg/dmarc/trac/wiki/MilestoneOneWiki

Can these indirect email flows be categorized?

- Forwarding: "original recipient domain != final recipient domain"?

  - ok, a@example.org -> b@example.org too..

  - "original recipient != final recipient"?

- Mailing lists: lists vs exploders vs groups vs aliases

  - "original recipient != final recipient"? Dang!

  - like *photography*, know it when we see it?

- Unrelated infrastructure: use of ISP's outbound SMTP for everything, mail-an-article, embedded devices = big :-(

  - Might include "using freemail address in commercial emailing"

- Front-door services: gateway/scanning/mx-backup

Milestone 1 Review

Conclusions:

- Difficulty of categorization likely doesn't matter. Even with clean categories..

- Indirect email flows can be combined to create very convoluted delivery paths.

- Plenty of documented problems = Milestone 1 done.

- *(No W3C equivalent for email.)*

Why multiple intermediaries matter (not to scale)

Mail

Mailing lists
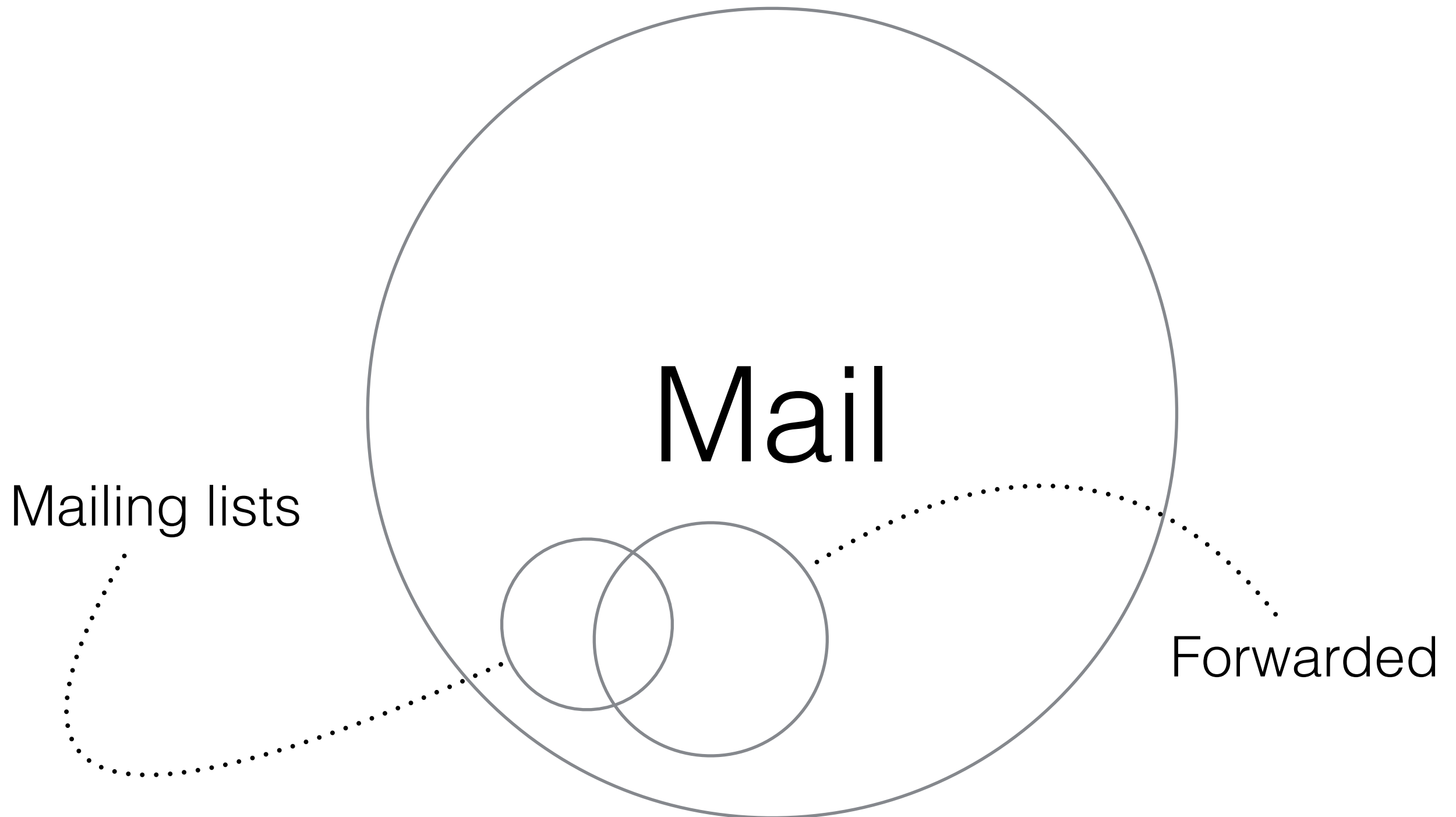
Forwarded

Which is to say...

- Mailing lists are small

- Forwarding is small

- But they are correlated so the overlap is not purely multiplication

- Consider people who subscribe to ACM lists with a (forwarded) ACM address

- Even when both are in same domain they are separate operations

Milestone 2 Kickoff

http://trac.tools.ietf.org/wg/dmarc/trac/wiki/MilestoneTwoWiki

First chartered deliverable: a document describing DMARC interoperability issues with indirect email flows plus possible methods to address issues.

Need an editor(s) to convert MilestoneOneWiki into proper draft. Editor(s) must be able to fold "methods to address issues" into draft from wiki or as they are discussed on list.

Any Other Business