DMARC BOF

Proposed Technical Work

J. Trent Adams
<jtrentadams@gmail.com>

DMARC BOF – *Tech Topics*

- Base DMARC specification is planned as an Individual Submission for Standards Track (AD Sponsored by Barry Lieba)
- Focus is on extensions to base specification:
  - Mechanisms for enhanced handling of Display Names
  - Mechanisms for handling mailing list transit
  - Mechanisms for robust report transport
  - Additional mechanisms for discovering Organizational Domains

Tech Topics – *Display Names*

- DMARC relies on "Identifier Alignment"
- Domain extracted from the RFC5322.From <address-spec> must match:
  - Validated SPF domain, or
  - Validated domain from the DKIM "d=" field
- DMARC base specification doesn't take into account the RFC5322.From "display name"
- Nearly all situations where mailbox addresses exist in the "display name", and they do not match the <addr-spec>, are fraudulent.
- *Question:* Can we develop useful mechanisms to add to DMARC that combat common "display name" abuses?

Tech Topics – *Mailing Lists*

- Mailing list management software re-sending a message often breaks DMARC by:
  - maintaining the sender's address in the RFC5322.From, breaking Identifier Alignment
  - adding content to signed fields, breaking DKIM
- ***Question:*** Can we define a mechanism for mitigating the effect of failures of the DMARC mechanism when a message transits a mailing list?

Tech Topics – *Report Transport*

- DMARC RUA and RUF reports are predominantly sent via email

- Some reports are very large, and receipt is not guaranteed or acknowledged

- ***Question:*** Can we develop additional mechanisms for more robust transport of reports?

Tech Topics – *Organizational Domain*

- Organizational Domain: the 'base' of an organization's domain name (e.g. "example.com" or "example.co.uk")
- Identifying the Organizational Domain requires a "public suffix list", which:
  - can easily get out of date
  - is often inaccurate
  - won't scale with explosion of new TLDs
- Alternative solutions are being explored:
  - [draft-levine-orgboundary](#)
  - [draft-sullivan-domain-policy-authority](#)
- ***Question***: When more robust mechanisms are developed to identify the Organizational Domain, can we develop an extension that adds it?

Questions?