

Pilot project proposal: AffiL *Affiliated domain names for email trust*

http://mipassoc.org/affil

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Identification – IP vs. Domain



Pros

- Can be at SMTP time
- Lots of existing practice
- High granularity

Cons

- Dynamic
- Not portable
- Shared among senders
- * / Tied to machine, not org.

Domain Names

Pros

- Aligns better with org
- Long-term stability
- Less long-term admin
- Can be delegated

Cons

- Must wait for message header to be transmitted
- More complex software



DKIM – Identify a Responsible Party RFC 4871

http://dkim.org/specs/draft-ietf-dkim-overview-10.html

<u>Goals</u>

- Any handler can sign
- Compatible/transparent with existing infrastructure
- Minimal new infrastructure
- Implemented independently of MUA clients
- Deployed incrementally
- Permit delegation of signing to third parties (non-authors)

<u>Non-Goals</u>

- No linkage to other ID field
- No assertions about behaviors of signing identity
- Not directions to receivers
- No protection after signature verification.

No re-play protection

 Transit intermediary or a recipient can re-post the message

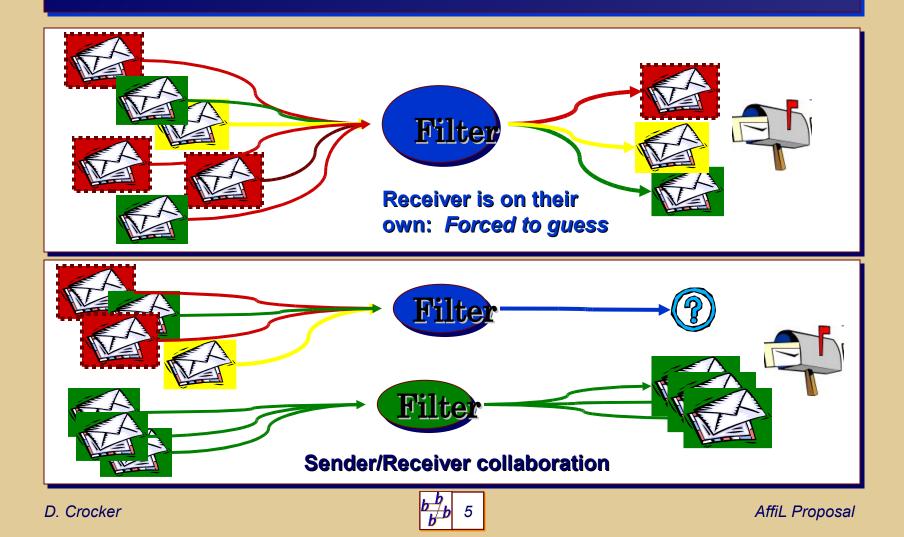


Authentication is Useless...

- ... by itself
 - * We all say this, but do we appreciate what it really means?
- We often say: If you have a validated name, you can make simple decisions for folks you know.
 - After all, you already know that I'm a great guy...
 - But this means really means you've gone beyond simple authentication... into reputation.
- This added layer is a barrier to adoption of authentication!
 - Must have a reputation step, before an adopter gets value.
 - * Potential adopters of authentication are waiting for compelling and immediate utility that is turnkey.



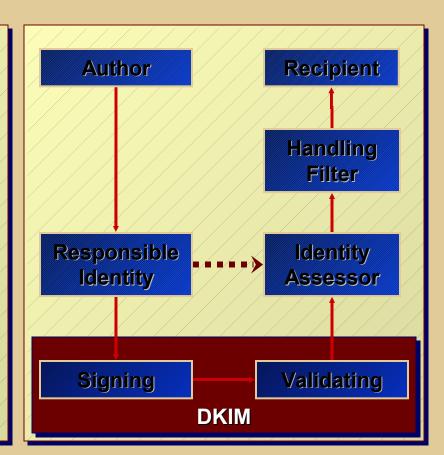
Trust can be a separate channel



Recipe for Trust

- Identification generated by 'sender'
- Validation it really is them
- Assessment of the sender's worthiness
 - Reputation of goodness/badness
 - * Attributes \Rightarrow Reputation
- [Multiple assessments ⇒ filter]

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AffiL Proposal

Can a simple project help?

- Some utility, based on authentication
 - * <u>Without prior sender/receiver arrangement</u>
- Goals
 - Simple, useful
 - Not compete with "reputation" services...
 - Possibly serve as a template for others
- Proposal
 - Affiliations List (AffiL): "belonging" not "goodness"
 - Spec: mipassoc.org/affil



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Affiliations List (AffiL)

Pilot project

- Create an email trust domain among member institutions to permit streamlined email filter handling.
- Demonstrate utility of validated affiliations list
- Publish a list of affiliations (membership)
 - Membership can be a meaningful "indication" of Goodness
 - Might publish related attributes, like type of institution
 - Assessor might interpret favorably, but not give message a free pass
- Could be template for other organizations to use



Example Affiliations

- FDIC member organization
- Sent from the US Senate
- Better Business
 Bureau member
- ISOI attendee
- DMA member

- Authorized 3^{rd-}party agent of purported author
- Domain name

 (actually) owned by
 the most spoofed
 company

Project Details

- Write charter for project
- Define expected use by assessment engine
- Agree on list semantics
- Evaluate legal implications
- Document and publish it

- Obtain agreements to publish
- Define DNS/VBR* query format
- Begin operation
- Document the project
- Recruit spamassassin and other users of list

* VBR: Vouch by Reference <http://www.domain-assurance.org/protocol-overview.phtml>



Attributes in an Entry

- Domain name
- Associated name of organization
- Member attributes, such as
 - Type of membership
 - Duration of membership
 - Security policies

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Your turn...

- Interest?
 - Idea of membership lists
 - Participation in pilot project

Concerns?





