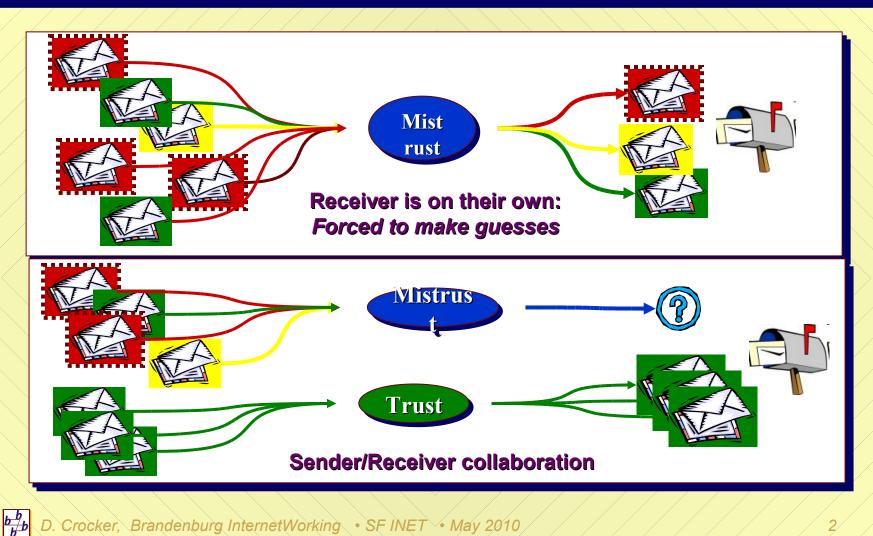


Email Trust Does Not Look for Miscreants

Dave Crocker Brandenburg InternetWorking bbiw.net

SF INET – 7 May 2010

Mistrust vs. Trust



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What is DKIM for?

- Means a message is not ₿ spam
- **Guarantees delivery** \$
- Puts a domain name on a message
- Validates a message
- Authenticates the author or ₿ origin of a message
- Authenticates the sender of a message

What DKIM <u>really</u> does

- Allows an organization to claim responsibility for transmitting a message, in a way that can be validated by a recipient.
- The organization can be the ¥ author's, the originating sending site, an intermediary, or one of their agents.
- A message can contain ¥ multiple signatures, from the same or different organizations involved with the message.

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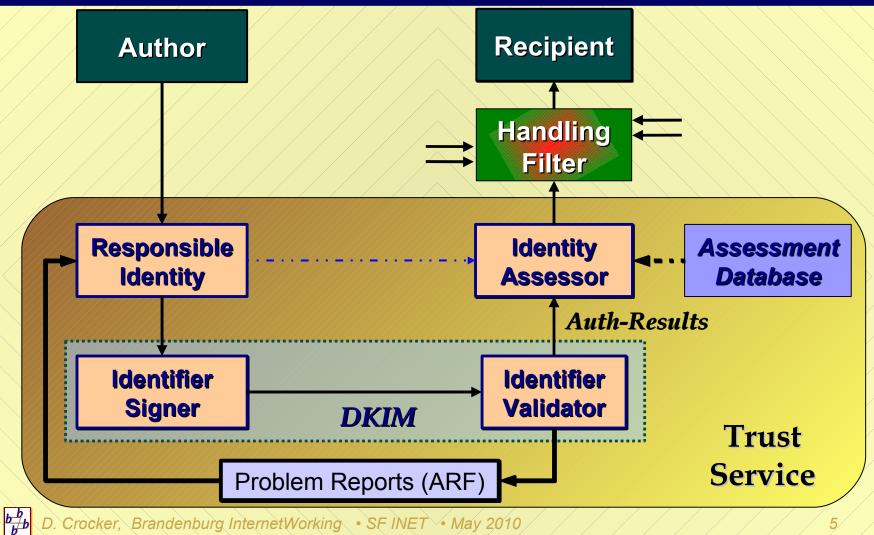
Differential Handling, with Trust as a Component

Organizational Trust

		Low	Medium	High
Stream Risk	Low	BENIGN: Moderate filter	DILIGENT: Mild filter	PRISTINE: Accept
	Medium	UNKNOWN: Strong filter	TYPICAL: Targeted filter	PROTECTED: Accept & Contact
	High	MALICIOUS: Block & Counter	NEGLIGENT: Block	COMPROMISED: Block & Contact



Trust Service Architecture



5

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Identifying Mail Streams

• An organization has multiple "types" of mail

- Corporate
- Transactions (purchase order, order confirmation...)
- Proposals
- Marketing mass mailings
- Customer Support

 Label them with different DKIM d= subdomains to help receiver

Allow different reputations to develop

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Different and Complementary

Mistrust

- Bayes, Blacklists, etc.
- * Look for mail to reject

Trust

- * DKIM, SPF, Whitelists
- Look for mail to <u>accept</u>

