

DKIM Implementation

MAAWG Training Series

Segment 1 of 4 on DomainKeys Identified Mail

From the onsite training course at the MAAWG 18th General Meeting San Francisco, February 2010

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Messaging Anti-Abuse Working Group

DKIM Implementation – Video Segments

Segment 1	Segment 2	Segment 3	Segment 4
20 mins.	20 mins.	18 mins.	35 mins.
<u>Theory</u> • General DKIM Architecture • What DKIM Is and Isn't	<u>Theory</u> • DKIM Protocol Details • Separate Mail Streams & Signing Practices	Practical • Planning • Keys and Policies	 Practical Signing Software Verifying Software Testing, Other Topics Q&A



Segment 1 Covers

Theory: General DKIM Architecture What DKIM Is and Isn't

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DKIM Implementation – "What"

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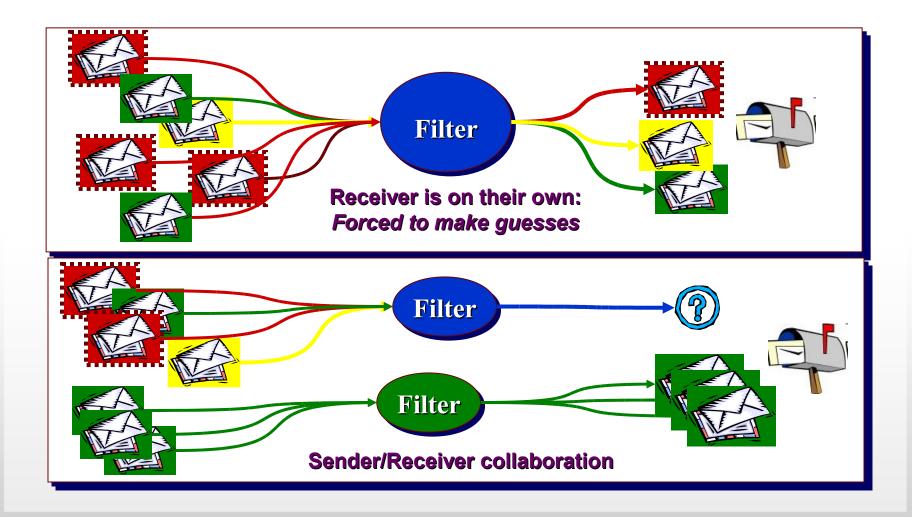
Agenda – What: DKIM in Trusted Email



- Trust vs. Mistrust
- What is DKIM and What is it for?
- DKIM Service Architecture
- Signature Basics
- ADSP
- Reporting Basics



Mistrust vs. Trust





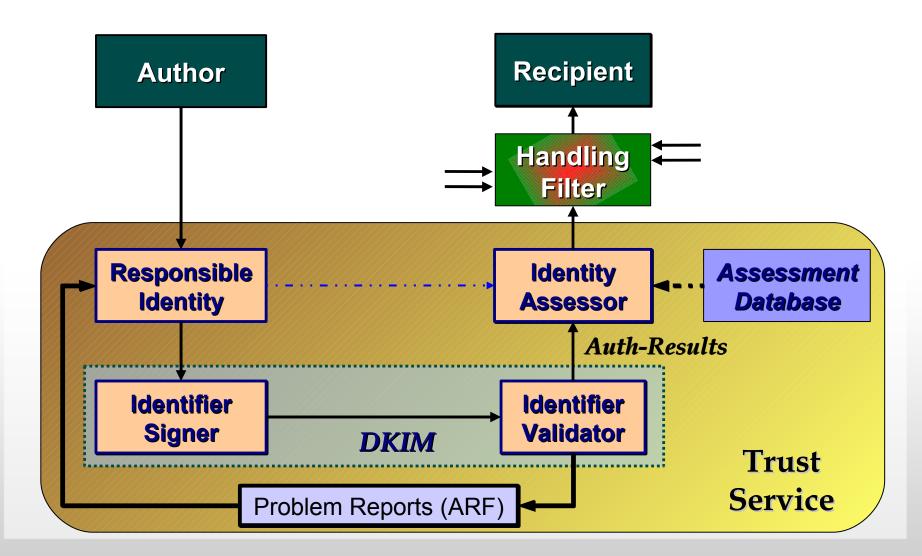
Differential Handling, with Trust as a Component

Organizational Trust

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

Trust Service Architecture





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What is DKIM for?

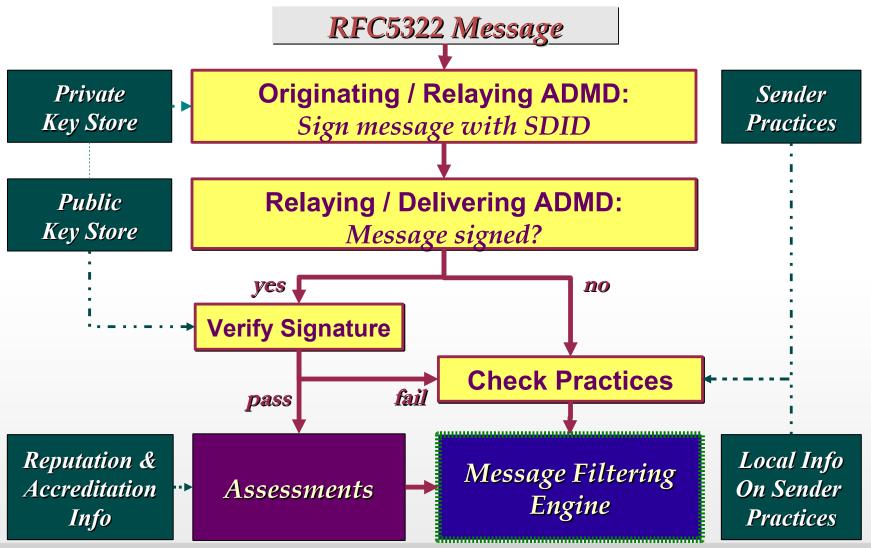


- Means a message is not spam
- Guarantees delivery
- Puts a domain name on a message
- Validates a message
- Authenticates the author or origin of a message
- Authenticates the sender of a message

• 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.

DKIM Service Architecture



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