



Application Policy



E-Mail from a client is critical

User's policy could be different from their ISPs

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Why Application Level Policy? (cont)

With application level policy:



Who Decides Policies?

System (resolver) policies get first priority

Application level policies are applied after.

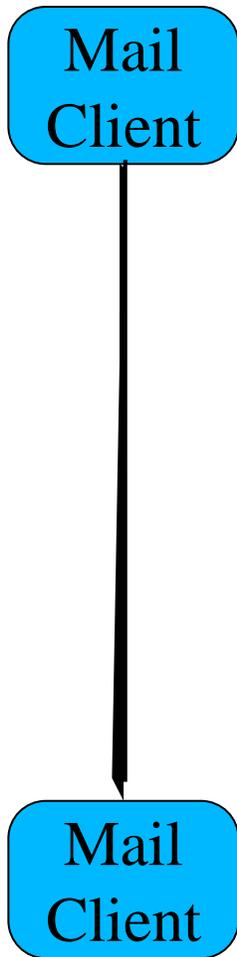
- ONLY if the resolver used does not enforce DNSSEC policies

Application Information Sources



DNSSEC and E-Mail Systems

E-Mail: End-User's View



E-Mail: **Smart** End-User's View

Mail



E-Mail: **DNS** Usage Architecture

MailClient

Outgoing
SMTP

E-Mail: Example DNSSEC Usage

Successful delivery to the correct SMTP servers

Anti-spam techniques (SPF) can't be bi-passed

Authentication information sent to the right place
(your POP server is who you're talking to)

Header checking

- Checks on advertised Received: addresses/IPs

Web: DNS View



Web: Example DNS Policies

DNSSEC-Tools

SPARTTm0 Tch producing freely available EC-Too-40

DNSSEC-Tools Extension Architecture

DNSSEC-Tools: MTA Extensions

MaiS Transfer Agents need to look up records

- Incoming: EHLO, Received: creation, ...
- Outgoing: MX, ...

MTAs being extended:

- SendmaiS
- Postfix

DNSSEC-Tools: E-Mail Readers

E-Mail readers need various records:

- Incoming POP/IMAP servers
- Outgoing SMTP servers
- Address Lookup Services (LDAP, ...)

E-Mail readers being extended:

- Mozilla
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