S/MIME Dane Demo

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Background

- Slow Uptake of DNSSEC
- Need killer-app
- DANE!!  SMIMEA!!
- But still slow uptake
- Windows still king
- Outlook still king
- Kaminsky 2009 shoehorn DNSSEC into Outlook
- What about via Outlook Address book?
- Bingo!  LDAP to DNSSEC validating convertor
- We now have any-2-any encrypted email
DEMO HERE
(Pray)
What Happened

1. Outlook queries its address book for information on dtest01@dnssek.info including S/MIME certificate. One of the LDAP entries points to local LDAP server at 127.0.0.1 port 390.

2. LVDT.EXE is a minimal, from scratch, LDAP server listening on port 390 that converts LDAP requests into DNS lookups.

3. DNS responses from ‘Net are DNSSEC validated by LVDT.EXE and only then converted back into a LDAP response for Outlook’s Address book to use. Outlook uses returned certificate to encrypt email.
Resources

- IETF draft-ietf-dane-smime
- lvdt.dc.org
- smimea@zx.com