

draft-sullivan-dnssd-mdns-dns- interop

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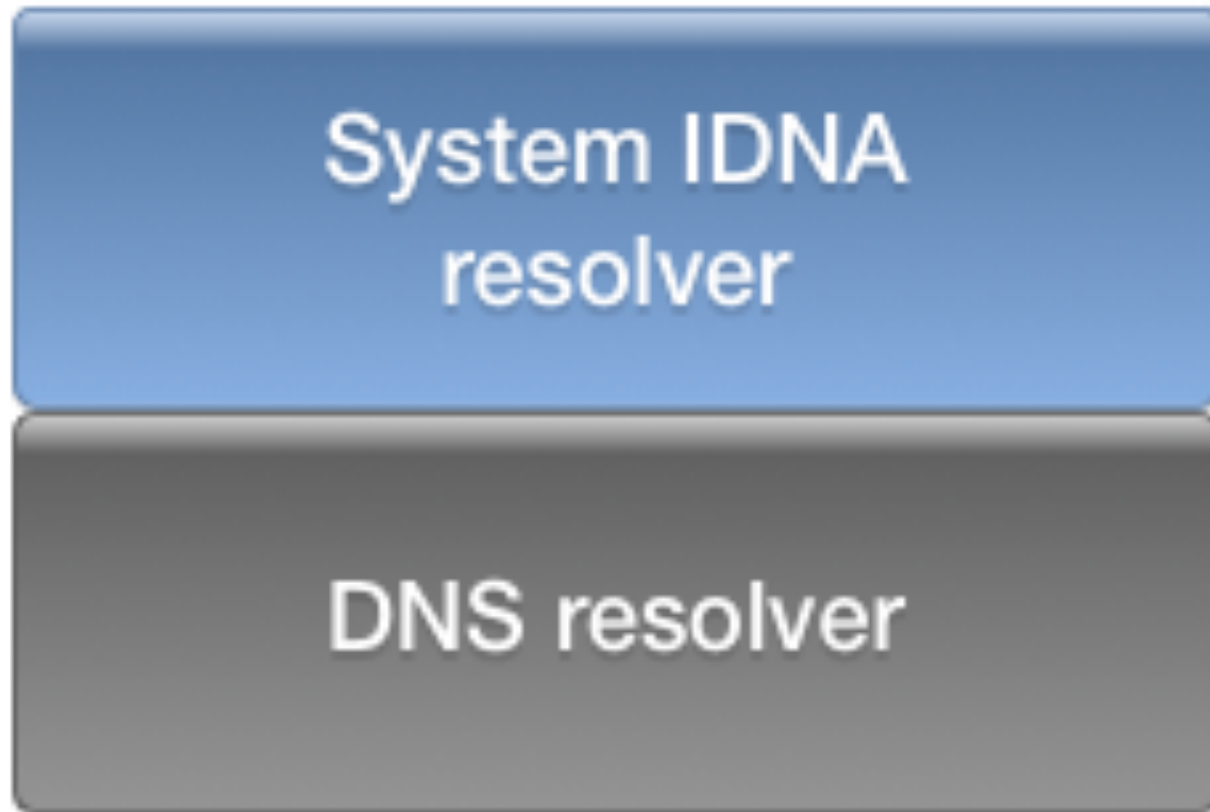
IETF89

dnssd

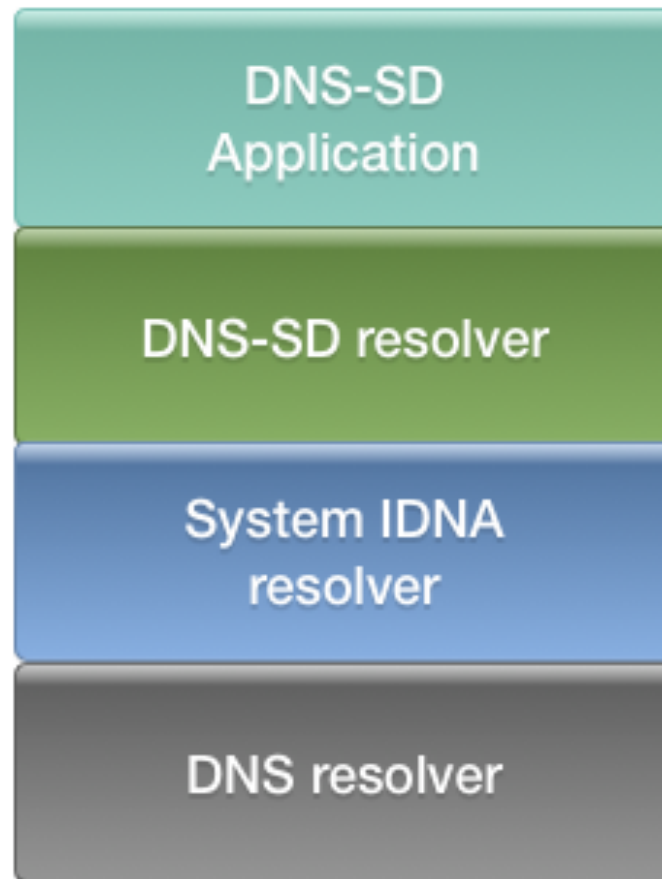
Motivation?

- Most public DNS uses IDNA (U-label/A-label pairs)
 - Two flavours
 - Or three, if you count UTS 46
- Top-level domains at least *will* be A-labels
- DNS-SD says “just use Unicode”
 - Fall back to IDNA

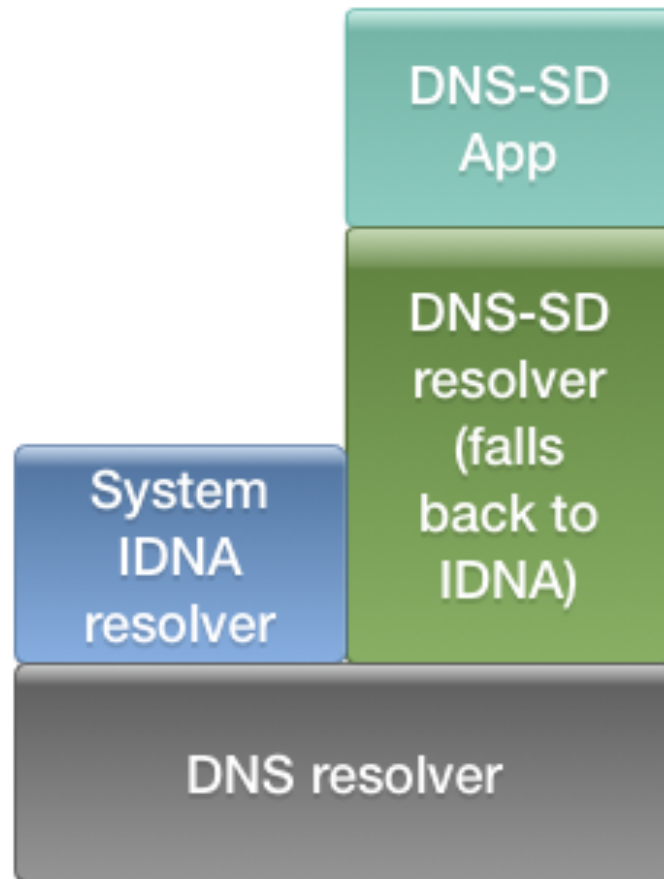
Hope for IDNA



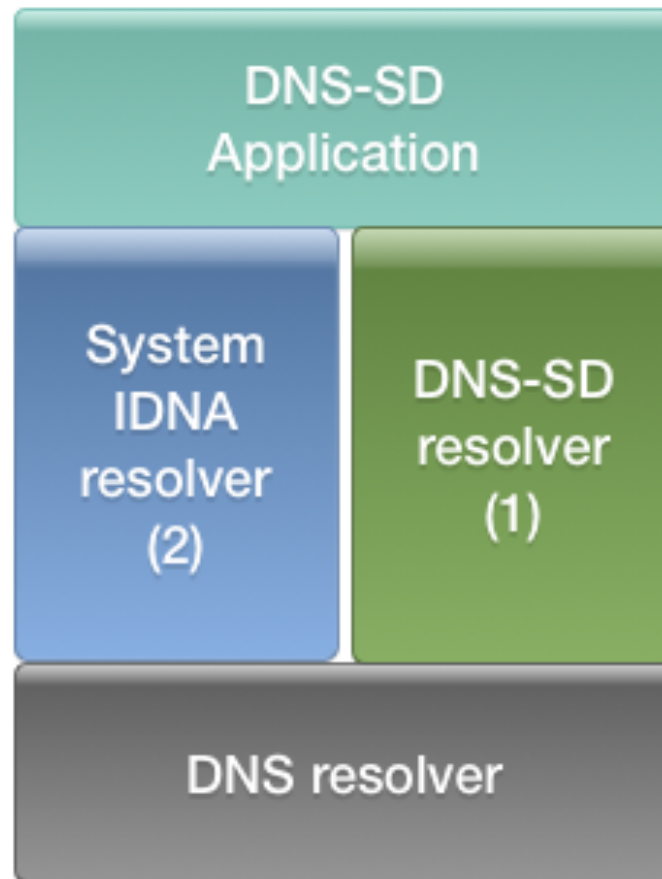
Option 1



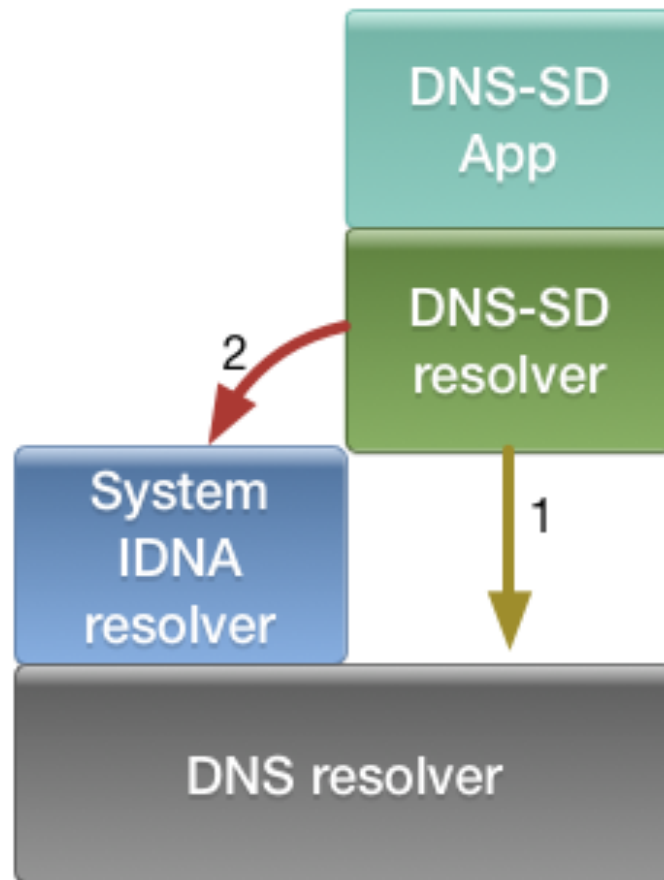
Option 2



Option 3



Option 4



IDNA labels are restrictive

- IDNA2008 inclusion-based: everything disallowed unless included
- DNS-SD says roughly “Use Unicode in UTF-8 and NFC and don’t use control characters”
- Does this matter at all, because of user interaction pattern?

Portions

- Seems to be agreement that <Instance> portion is user-interactive: use DNS-SD in “normal” mode.
- <Service> portion is automatically not IDNA.
- <Domain> portion is two-path for sure. What to do here?