

draft-sullivan-dnssd-label- miprofile-00

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dnssd

Why?

- Different name systems have different rules about what's allowed
- Common rule is needed for DNS-SD to work across these name systems
- Call this the “maximally interoperable profile”

Examples?

- In mDNS, write テスト as テスト (U+30B9 U+30C6 U+30C8)
- In DNS, write テスト (U-label) as xn--zckzah (A-label)
- In mDNS, write Andrew's Computer
- In DNS, no apostrophe and no space

Case is annoying

- MyExample and myexample and MyExAmPIE all match in DNS
- MyCafé is not a permitted U-label
- Just make a rule “lower case only”

3 rules

1. If the label is made entirely of LDH code points, then the label **MUST** be an LDH label
2. All LDH code points **MUST** be folded to lower case
3. If the label contains any other code point, then the label **MUST** be a well-formed U-label

Application

- Rules apply to labels
- Applies to <Instance> portion of DNS-SD name
- *Does not* apply to <Service> portion
- Applies to <Domain> portion