

Internationalized Email Addresses in X.509 certificates

IETF98

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draft-ietf-lamps-eai-addresses-08

[link](#)

local-part@domain

local-part: UTF-8

domain: U-label or NR-LDH

```
GeneralName ::= CHOICE {  
    otherName [0] OtherName,  
    rfc822Name [1] IA5String,  
    .... }
```

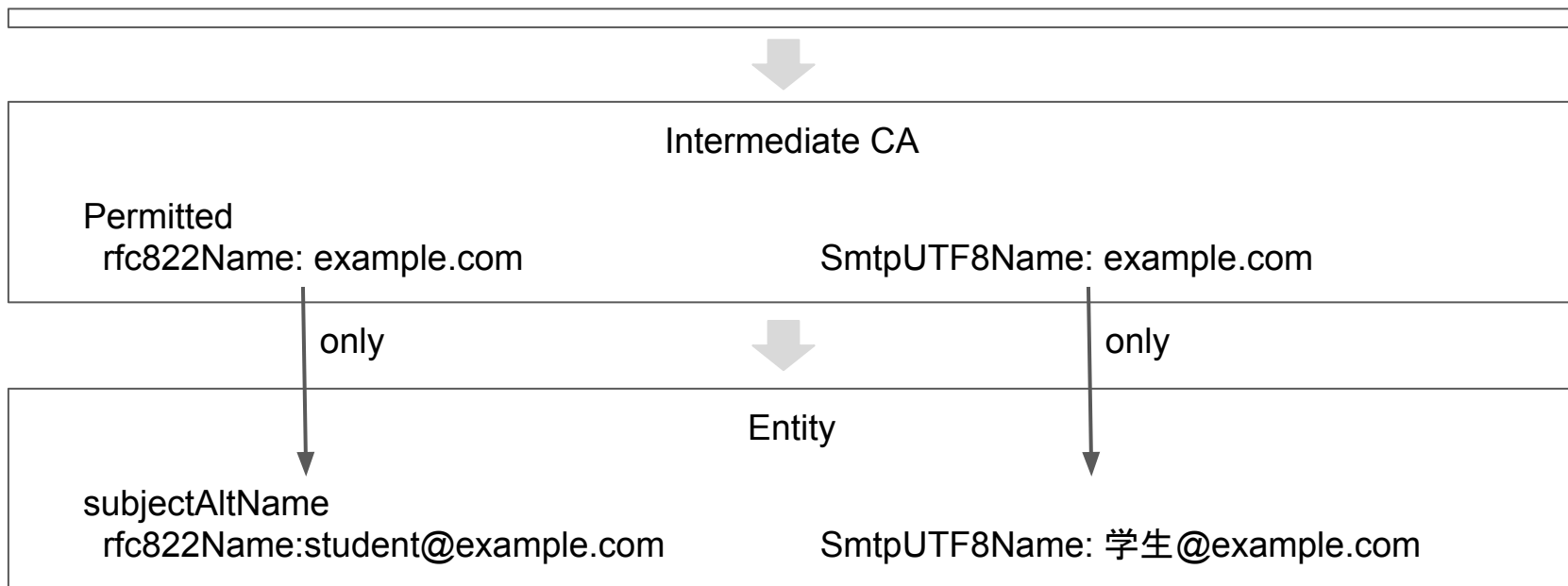
```
OtherName ::= SEQUENCE {  
    id-on-smtputf8Name (type-id) OBJECT IDENTIFIER,  
    smtputf8Name (value) [0] EXPLICIT ANY }
```

Status

- Last call feedback on drafts 06-08
 - Name constraint repair (rest of slides)
 - Domain must conform to IDNA2008 (including those in rfc822Name)
 - RFC5322 vs **RFC5321** email address
 - Prohibiting look-alike A-label ('cc--' prefix)
 - Case-folding (ASCII domain lower case otherwise none allowed)

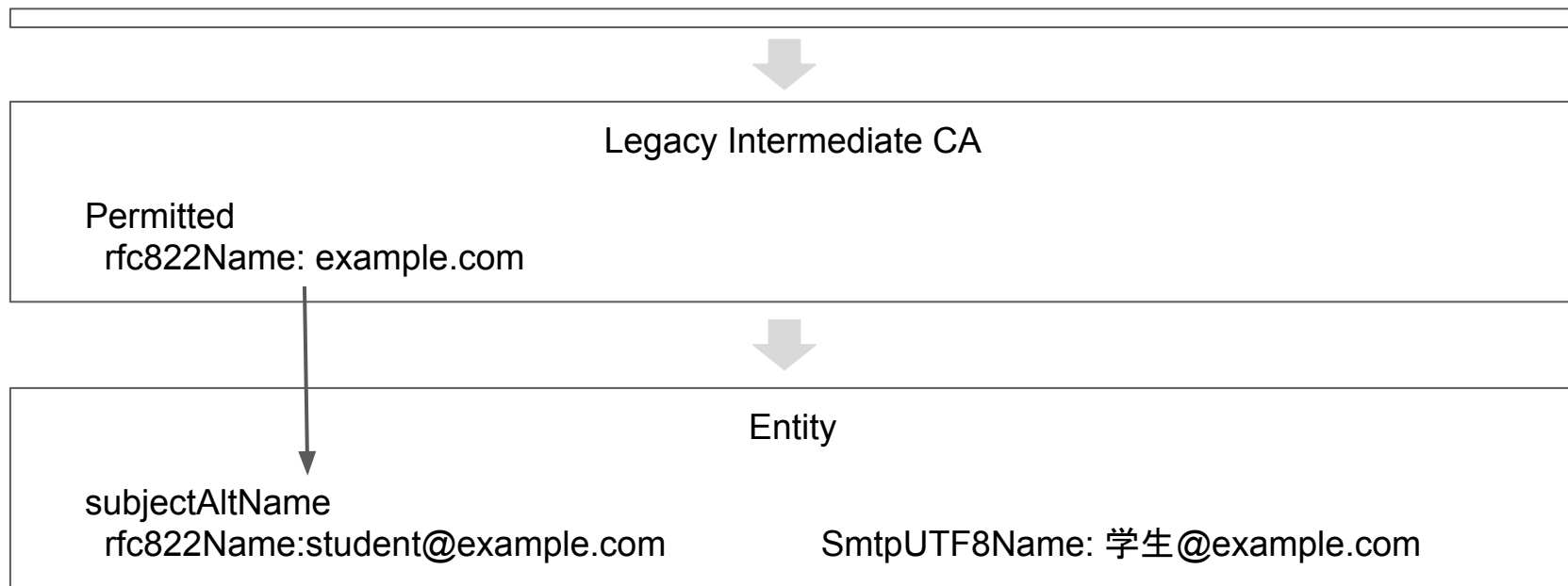
Name Constraints

- smtpUTF8Name name constraint **independent** from rfc822name



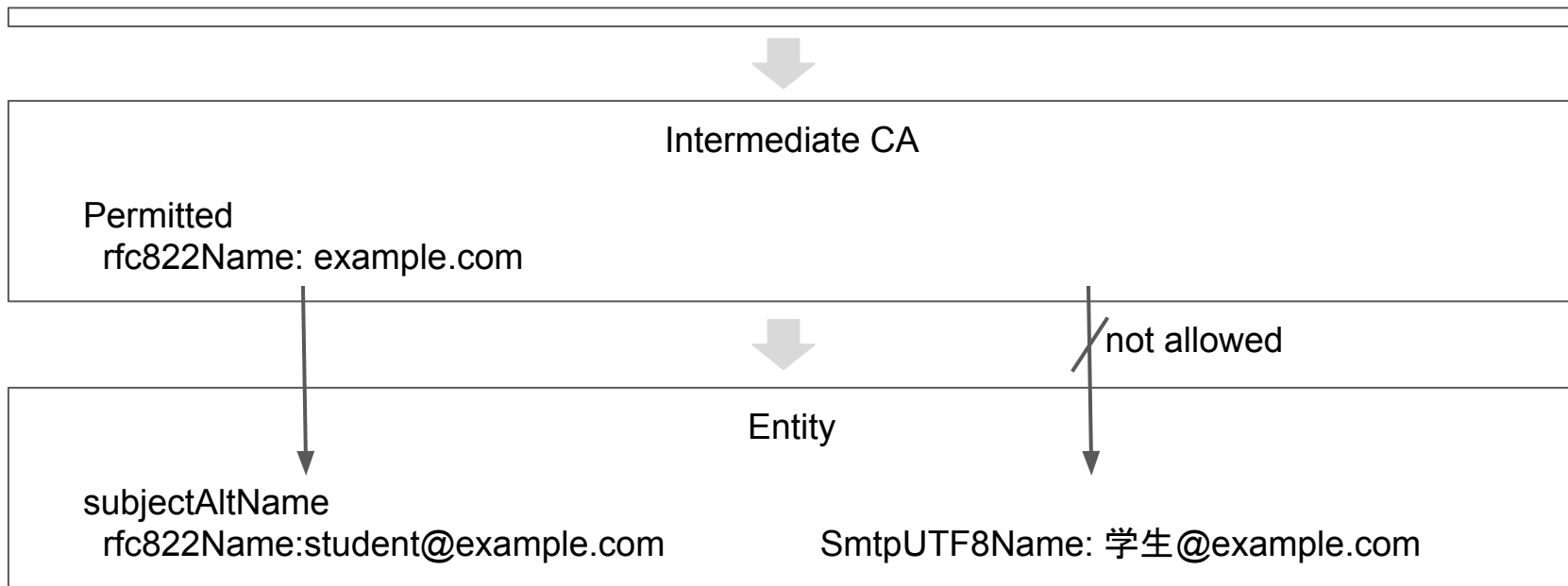
Legacy ICA Bypass (Smtputf8Name aware path verifier)

- smtpUTF8Name unconstrained



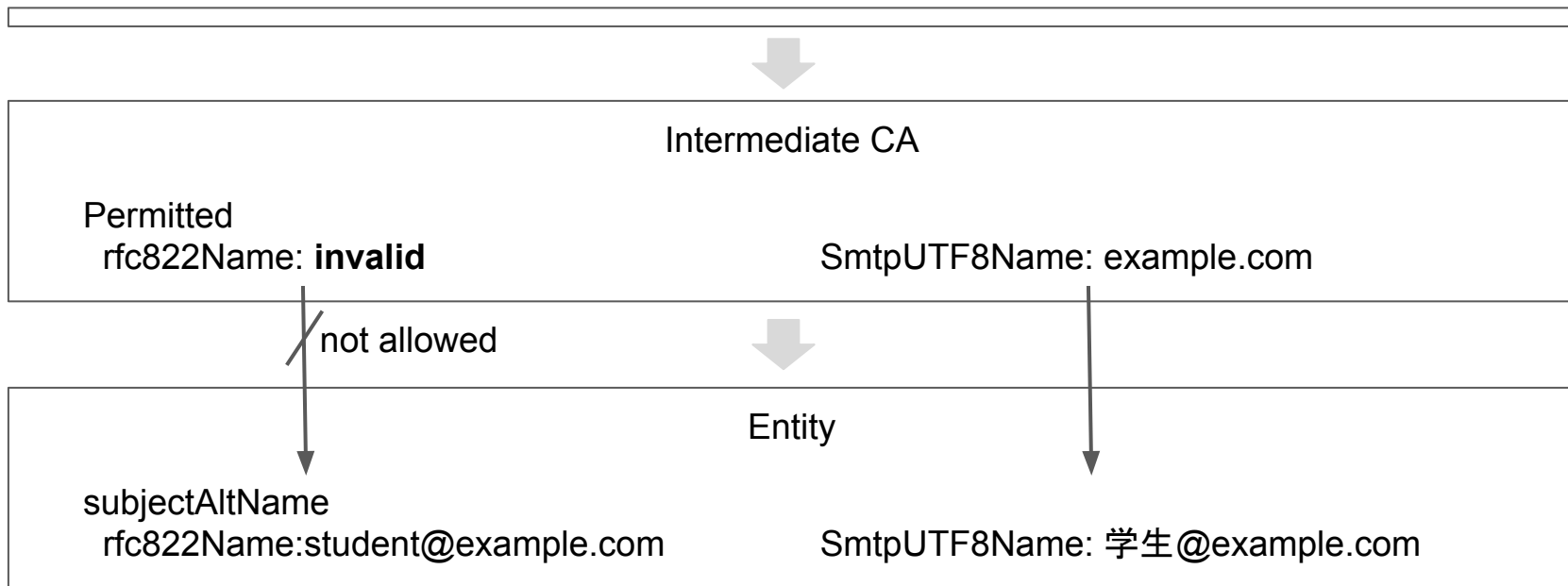
Path verifier checks name constraints validity

- smtpUTF8Name subject requires both smtpUTF8Name + rfc822Name name constraint, else fail
- legacy rfc822Name name constraint on rfc822Name subject allowed



Path verifier checks name constraints validity (cont)

- smtpUTF8Name subject requires both smtpUTF8Name + rfc822Name name constraint, else fail
- legacy rfc822Name name constraint on rfc822Name subject allowed



Legacy path verifier (SmtplibUTF8Name aware ICA)

- smtpUTF8Name unconstrained but...
- (09: extensions critical \Rightarrow verification fails)

