

Support for Internationalized Email Addresses (EAI) in X.509 certificates

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`draft-ietf-pkix-eai-addresses-00.txt`

Background

- EAI WG in the Applications Area is working toward completing rfc5335bis/rfc5336bis
 - rfc5336bis defines I18N email format as
 - <utf-8>@<utf-8> or <utf-8>@<ascii>
 - e.g. **Алексей.Мельников@ёлка.мойдомен.РФ**
- RFC 5280 defines rfc822Name subjectAltName choice for representing RFC 5322 email addresses, but that is not sufficient for the new format

Open Issues

- Multiple aliases
 - for the left hand side of I18N emails
 - More importantly: multiple aliases for the IDN domains (especially due to IDN 2008)
 - ёлка.мойдомен.РФ
 - елка.мойдомен.РФ
 - **N left hand sides in M domains can make a certificate long**
- UTF8String X.509 type is not widely supported?

Other relates tasks

- Update RFC 5280 to use IDNA2008 language?