

draft-saintandre-xmpp-i18n-02

PRECIS WG / IETF 79
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Objectives

- Figure out how to proceed in the “post-IDNA2008” world
- Can we use Marc’s proposed framework? <draft-blanchet-precis-framework-00>
- What is the simplest possible approach?

XMPP Addresses (JIDs)

- `<localpart@domainpart/resourcepart>`
- Localpart can be a username, a chatroom, a bot, etc.
- Domainpart is a server or component
- Resourcepart can be a device identifier, a nickname in a chatroom, etc.

JID Examples

- <münchen.de>
- <司馬 安平@jabbercn.org>
- <jiří@jabber.cz/domů>
- <jdev@conference.jabber.org/the  >

Domainpart

- Migrate to IDNA2008
- Support only U-labels on the wire?
- U-label comparison in IDNA2008 occurs without case-folding – is this OK?
- Translation between U-label (XMPP) and A-label (DNS) introduces processing load?

Localpart (I)

- Often a username, which might be my real name in my native language or script
- All “namelike” characters should be valid (but do we really need symbols, stars, etc.?)
- XMPP server is “registrar” for accounts; do we need registration policies?
- Ideally, consistent with email, SASL, etc.

Localpart (2)

- Currently use a stringprep profile called Nodeprep
- Disallow: SP " & ' / : < > @
- Case mapping: B.1 + B.2 from stringprep
- Normalization: NFKC
- Bidi: essentially unspecified

Localpart (3)

- Disallow code points that are disallowed now
- Case mapping: as in IDNA2008, or specify case-folding methods?
- Normalization: NFC?

Localpart (4)

- Possible approaches:
 - Use whatever we develop for SASL to replace SASLprep ("simple username")
 - Harmonize localpart with EAI (but: disallowed chars are not the same)
 - Define separate identifier class?

Resourcepart (I)

- Essentially a free-form string (location, machine name, fanciful text such as a glyph or dingbat)
- All “namelike” characters should be valid
- Do we really need things like “the ”?
- Case sensitive (but is this a good idea?)

Resourcepart (2)

- Currently use a stringprep profile called Resourceprep
- Disallowed: non-ASCII spaces, controls, C.3-C.9 from stringprep
- Mapping: B.1 from stringprep
- Normalization: NFKC
- Bidi: essentially unspecified

Resourcepart (3)

- Restrict allowable code points?
- Case mapping: continue to ignore case?
- Normalization: NFC?

Resourcepart (4)

- Possible approaches:
 - Re-use whatever we define for localpart
 - Define "free-form identifier class"?
 - Use Net-Unicode (RFC 5198)?
 - Say it's "just UTF-8"?