

Replacing SASLprep (draft-melnikov-precis-saslprepbis)

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Recap

- The goal: replace RFC 4013 with something based on PRECIS
- RFC 4013 had one stringprep profile, used for both usernames and passwords
- draft-melnikov-precis-saslprepbis has two PRECIS subclasses, one for usernames and one for passwords
- Several open issues...

Open Issues (1)

- Passphrases must allow spaces, and usernames might need to (but only U+0020 in RFC 4013)
- Unclear if spaces are used within usernames right now; need input based on deployment experience
- PRECIS recommends Normalization Form C (NFC), but RFC 4013 used NFKC, which is more aggressive about finding matches (perhaps undesirable from a security perspective); need implementer feedback

Open Issues (2)

- RFC 4013 mapped certain characters to nothing, whereas in PRECIS these ignorable characters would be disallowed; need developer feedback about security and interoperability implications
- RFC 4013 allowed uppercase and titlecase characters; remove for usernames?