SASLprep Bis
(draft-melnikov-precis-saslprepbis)

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SASLprep (RFC 4013)

- A single stringprep profile for both usernames and passwords

- Non-ASCII space characters mapped to SP

- Characters "commonly mapped to nothing" are mapped to nothing

- Unicode Normalization Form KC (NFKC)

- Various prohibited output

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User Names, Bis

- Re-use PRECIS NameClass

- Map non-ASCII space to SP

- Map PRECIS "M" class to nothing

- Map uppercase to lowercase

- Normalize with NFC (not NFKC)

- Apply "Bidi rule" from RFC 5893

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Passwords, Bis

- Re-use PRECIS FreeClass

- Map non-ASCII space to SP

- Map PRECIS "M" class to nothing

- No case mapping

- Normalize with NFC (not NFKC)

- Apply "Bidi rule" from RFC 5893

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Open Issues

- Two separate profiles OK?

- Just disallow PRECIS "M" class instead of mapping to nothing?

- Switch from NFKC to NFC? (less strict)

- In passwords, what about codepoints that have compatibility equivalents?

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