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
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
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
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?