Stringprep Revision Problem Statement

draft-blanchet-precis-problem-statement-00

Marc Blanchet
Viagénie

marc.blanchet@viagenie.ca

Rationale for the document

- Establish the rationale for the revision of stringprep

- List how current stringprep profiles are done

- Compare with new IDNAbis algorithm

- Identify possible ways to revise stringprep.

Introduction Section

- Gives the context of why stringprep

- Lists the stringprep profiles

- Tells that idna (therefore nameprep, one of the stringprep profiles) was revised to use a new algorithm for idnabis.

Usage and Issues of Stringprep

- In essence, tries to capture what was presented during newprep Anaheim BOF, such as:

  - Lists how stringprep profiles are defined and used

  - Lists current shortcomings of stringprep and requirements for new revision:

    - Bound to Unicode 3.2

    - Want to be independent of Unicode version: Unicode agile

    - Need better Bidirectional support

    - If revised, backward compatibility is high priority

    - Same identifiers are passed in different protocols, so need to be consistent across multiple profiles.

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Usage and Issues of Stringprep

- Noted that stringprep profiles are using NFKC and IDNAbis is using NFC

- Stringprep profiles usage are for different kind of strings: usernames, identifiers, etc.

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Considerations for Stringprep replacement

- Directions are proposed:
  - Stringprep replacement should be designed
  - Similar approach to IDNAbis, enabling Unicode agility
  - Stringprep profile protocols have similar uses of strings. Possible small set of string classes can be defined.

Conclusion and Next Steps

- Aim to describe the Precis problem statement
- A lot of content based on newprep Anaheim BOF presentations and discussions
- Proposes directions for new revision
- Proposed next steps in no specific order:
  - Find a co-editor
  - Augment the content
  - Adopt as Precis Working Group document

Questions?

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Contact info: marc.blanchet@viagenie.ca