Mozilla's IDN Implementation

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Overview

● Based on code from JPNIC:
   – RFC 3454 “stringprep”
   – RFC 3490 ACE encoding

● Development History
   – First added to Mozilla 1.4 (Netscape 7.1) [2003]
   – Enhancements went into Mozilla 1.7 (Firefox 1.0, Netscape 7.2) [2004]
   – Mozilla trunk includes additional enhancements
URL Processing

- Mozilla handles IDN during URL parsing:
  - Input to URL parser may be Unicode or ACE (ACE input converted to Unicode as of Moz 1.8)
  - URL objects store Unicode & ACE versions
  - UI code requests the Unicode version of a URL
  - Network code requests the ACE version
  - Unicode input is normalized (Moz 1.7)
räksmörgås.se

Detta är en test av IDN, Internationalized Domain Names. Det finns mer att läsa om IDN på NIC-SE:s [hemsidan om IDN]. Denna domän heter även xn-rksmrg-5wao1o.se.

Testlänkar:
- www.raksmorgas.se
- www.xn-rksmrg-5wao1o.se

[Image of a web browser window with a URL of http://www.raksmorgas.se/]

**Treated Equivalently**
Future Plans

● Polish:
  – Eliminate any remaining occurrences of ACE “xn--” strings showing up in the UI
  – Ensure that URLs are always compared in normalized form

● Improve support for IRIs
  – Leveraging abstraction layer introduced for IDN