xml2rfc as implemented, or maybe v3.1

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How did we get here

• RFC 7991 defined rfcxml 3.0
• xml2rfc implemented 3.0, give or take
• some changes per user requests
• some changes for unclear reasons
Kinds of changes

• Additions to 7991
• Changes to 7991
• But generally upward compatible
  • Current xml2rfc program will render all published rfcxml 3.x
Typesetting changes

• Add more control over output layout
• <t indent=3>
Semantic changes

• `<postal>`
• links
• Unicode
Sorting the changes

• Things to keep
• Things to back out, if any
• Things to fix
• Fixes to things not done (yet)
Things to keep

• formatting stuff
• most new elements
Things to fix

• postal -> postalliine
• document name
• preptool stuff
• Unicode
• What is allowed in what
Fixing Postal

<postal>
  <street>Embassy Golf Link Business Park</street>
  <city>Bangalore</city>
  <region>Karnataka</region>
  <code>560071</code>
  <country>India</country>
</postal>
Fixing Postal

<postal>
  <postalline>Embassy Golf Link Business Park</postalline>
  <postalline>Bangalore 560071</postalline>
  <postalline>Karnataka</postalline>
  <country>India</country>
</postal>
Fixing document name

<rfc ... version="3" category="info" docName="draft-chatgpt-aisdp-00" indexInclude="true" ipr="trust200902" number="9405" prepTime="2023-04-01T10:52:19" ...>

<rfc ... version="3" category="info" docName="rfc9405" indexInclude="true" ipr="trust200902" number="9405" prepTime="2023-04-01T10:52:19" ...>

<link href="https://datatracker.ietf.org/doc/draft-chatgpt-aisdp-00" rel="prev"/>
Unicode

• Originally allowed in few places
• `<u>` element for where code points matter
• Now allowed most places
• RPC has discretion about what is allowed where
• Minor open questions, e.g., can you say $x^2 \leq \delta$
• `<contact>` abused for in-line Unicode
The prep tool

• Expected to be a separate prepass, then render N versions
  • Now usually run as combined prep+render
• Useful to make renderings consistent
• New <toc> element is OK
• To put authors at end, <section> now allows <author> anywhere
  • Which is semantic nonsense
• Fix: new <authorList> element in <back>
The prep tool

• Users don’t understand what preptool does:
  • Move prep elements to separate namespace

• Adjust xml2rfc to ease prep once, render multiple?
Document flow

• Inconsistent rules about what can contain what
• Make consistent
  • Probably can make upward compatible, just allow more stuff
• Concrete proposals coming RSN for a year
Odds and ends

- Clean up SVG rules
- Allow bitmap artwork?
- `<link>` doesn’t match spec, fix code or fix spec?
- Clarify how includes work for refs and otherwise
What to do with the draft

• Publish as snapshot of 3++ as currently exists
• Clean up to 3.1, then publish?
• Both?
• Neither?