Standards update

Andrew Sales

Project Editor, ISO/IEC 19757-3
Chief Content Architect
Bloomsbury Publishing Group plc

andrew@schematronist.org
andrew@andrewsales.com
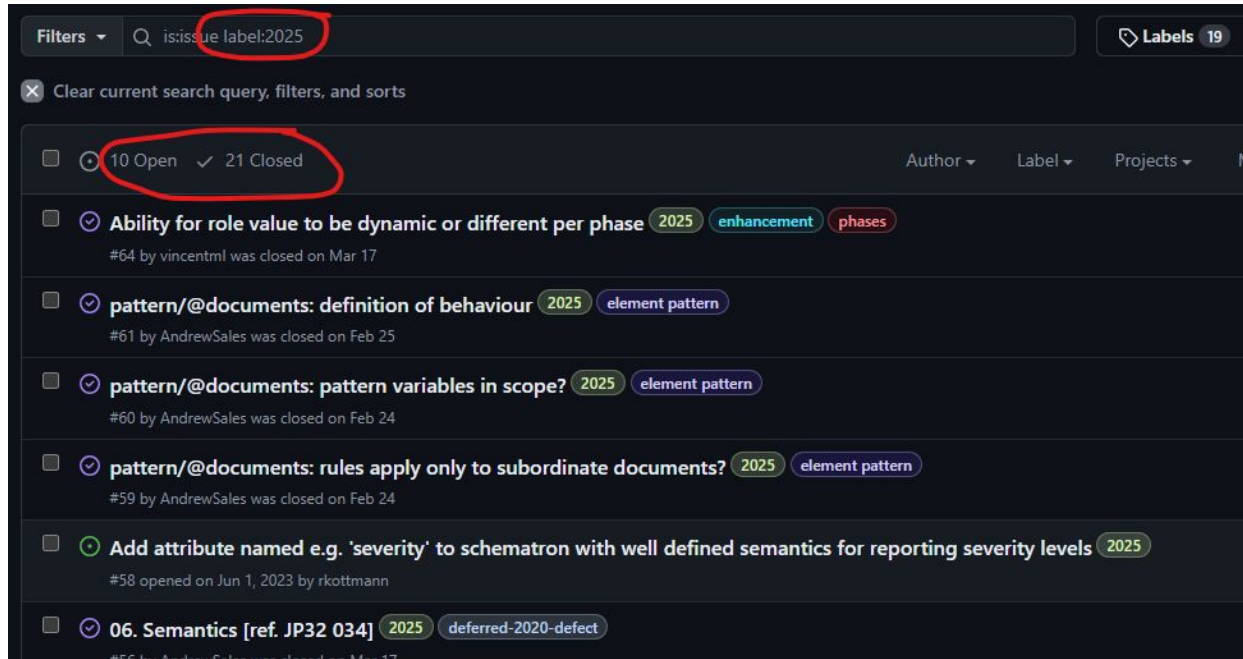@ASDigPub

Current status

- 4th edition at Committee Draft stage
- Draft International Standard (DIS) in preparation
- **Deadline Sep 2024**
- Publication due Sep 2025

What are the proposed changes?

(All subject to approval)

SEP GitHub repo: label "2025"

GitHub: Schematron/schematron-enhancement-proposals/issues

Proposed changes (1)

- New attribute `(assert|report)/@severity` (#58)
  - values `fatal`, `error`, `warning` and `info` reserved
- New element `group` (`pattern` with all rules eval'd) (#25)
- New element `rules`, to group abstract rules (#3, #39)
- New element `library`, to bulk-import constructs using `extends` (#39, #66)
- New attribute `schema/@schematronEdition` (#42)
- Typed variables, via new attribute `let/@as` (#1)

Proposed changes (2)

- Dynamic evaluation of (`@flag,@role,@severity`) (#64)
- Pass external params via `schema/param` (#34)
- Abstract patterns require params (#8)
- SVRL corrections & clarifications, incl. Annex (#5, #7, #38)
- Base URI fixup (#2)
- L10n: language fixup (#6)
- Support for TVTs in constructing messages (#49)

Proposed changes (3)

- QLB names reserved for qt4 languages (#70)
- Added `import`, `include`, `use-package`, `import-schema`, `accumulator` to relevant XSLT QLBs (#4)
- New QLBs for XQuery 3.*x*

Late-breaking changes (1)

- Phases (1): dynamic selection (#71)
  - New attribute `when`
  - New special selector `#ANY`
  - Selects first matching phase in document order
- Phases (2): partial document validation (#72)
  - New attribute `from`
  - Selects matching subset of document to validate

Late-breaking changes (2)

- New attribute `visit-each` (#75):

```
<rule context='para'
visit-each='analyze-string(., "foo")'>
  <report
test='fn:match'>[...]</report>
```

- `<svrl:error document='...' code='...'
location='...'>` (#69)

What's **not** changing?

- Other SEPs outstanding and emerging
- Some (more radical?) proposals are deferred
- We needed to draw the line somewhere

How to contribute

- GitHub:
  …/Schematron/schematron-enhancement-proposals
- Your ISO-affiliated national standards body
- Mailing list: schematronist.org

GitHub links

SEPs:
Schematron/schematron-enhancement-proposals/issues

Schemas:

Schematron/schema/tree/2025-edition