CTM

October 14, 2007

Issues relating to TMQL (1)

- **Clause 3.1 Syntax conventions**
  - Put them in CTM instead? Discuss with Robert and Lars Marius
  - See LMGs meeting notes on TMQL

- **Clause 4.1 Constants**
  - QIRI and IRI stuff must be aligned between TMQL and CTM

- **Clause 4.2 Atoms**
  - Data types must be aligned between TMQL and CTM
  - True and false can cause problems in TMQL
    - Does CTM really need them? If not, remove.
  - In TMQL: null should be **xs:nil**
  - In CTM (and TMQL): **null** should be **undef**
    - Discuss whether CTM really needs **undef**

Issues relating to TMQL (2)

- **Item identifiers**
  - In TMQL bare identifiers will always expand to **subject identifiers**
  - New syntax for item identifiers using the tilde, e.g.
    ~file:/C:/topicmaps/myDoc.ctm#language
  - Add to CTM
    - NOTE: This conflicts with reification and needs to be reassessed

- **Clause 4.10 Topic Maps content**
  - TQML needs to modify the syntax productions of CTM in order to define embedding of CTM
  - This should be coordinated with the CTM editors

Issues relating to TMQL (3)

- **Multiline comments should be reintroduced**
  - Use #(.....)# unless TMQL editors come up with reasons why this would interfere with TMQL [31] tm-content
  - Objections were raised at the end of the meeting to this syntax
    - A couple of people thought it was just ugly and could cause confusion with one-line comments consisting of a parenthesis:
      - #(this is an example)
    - /* ... */ would conflict with path expression language
    - #/ ... /# might work instead
    - Other suggestions:
      - ### ... ###   (problematic w.r.t. to single line comments or not?)
      - (-: ... :-)   (too puerile?)
      - (o- ... –o)   (ditto?)
  - Check SQL, XPath, Xpointer and XQuery for alternatives

Escape syntax for Unicode chars

- **CTM Clause 3.4.1 Escape syntax**
  - Unicode characters:
  - must support up to 8 hex digits (\u0088AAFF)

- **May require two different syntaxes, e.g.**
  - \u00FF
  - \U00FF00FF