DFDL WG Call Minutes

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Meeting about Meetings\OGF

Project DFDL 1.0

Meeting Date 05-Jan-16 (Tues)
Meeting Time 15:00 - 16:00

Created by Steve Hanson on 09-Mar-11 Last Modified by Steve Hanson on 06-Jan-16

OGF DFDL Working Group Call, 5 January 2016

Agenda

Prepare for your meeting by describing the objectives (both immediate and long-term, if appropriate) of the meeting; and describe key plandetails.

1. Daffodil Open Source Project

Status update.

Progress of work to converge capability with IBM DFDL.

2. AOB

Minutes

Meeting Minutes

Reflect on your meeting as you record all topics and issues discussed, and any tabled conversations. What went well, or what would you do differently next time? Document those so others can take advantage of your learning.

Attendees

Steve Hanson Mike Beckerle

Apologies

Minutes

1. Daffodil Open Source Project

Has been some criticism that the schemas on GitHub either work with Daffodil or with IBM DFDL but rarely both. Mike is compiling a list of features needed for Daffodil that will allow most of the schemas to work with Daffodil. IBM DFDL list of missing features is at http://www-01.ibm.com/support/knowledgecenter/SSMKHH_10.0.0/com.ibm.etools.mft.doc/df00150_.htm.

2. Deferred actions

Go through deferred actions and cancel those that are unlikely ever to get done.

IPR Statement

"I acknowledge that participation in this meeting is subject to the OGF Intellectual Property Policy." Meeting closed 16;00 ŬK Next regular call Tues 19th January 2016 @ 15:00 UK Create Action Items Record the to-do's and individuals assigned by entering the appropriate information in the form below . Press the "Create Action Items" button to create specific to do's that can be tracked in the assignee's Work for Me views. " All Action Items will be tracked in the Action Items and Other Meeting Documents tab. Action Items and Other Meeting Documents Subject **Document Type Modified** Created Next action: 286 Actions raised at this meeting **Action** No **Current Actions:** Action No

17/9: Lesson 1 proposes a set of lessons, needs reviewing as over 2 years old.

228

Review set of tutorial lessons (All)

22/10: No progress

31/10: Becoming a focus for Tresys. Steve to send his 'Modeling Data Formats using DFDL' powerpoint.

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19/11: No further progress

26/11: Possibility of help from MITRE high-school student, and from Marisa at IBM.

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11/3: No further progress

25/3: MITRE have produced a couple of new tutorials under the guidance of James Gariss . Jonathan to forward for review.

Mike observed that an html tutorial could be generated from a tdml file using XSLT.

11/4: Not discussed

15/4: Jonathan will send 4 new mini-tutorials. Need to figure out best way to incorporate into the tutorial structure.

29/4: Tutorials received. Mark has taken a quick read. Mark & Steve to review and report back. 6/5: Still with Mark and Steve

20/5: Mark has reviewed. Will ask IBM information development to recommend a way to portray the existing and new lessons, preferably web-based. Find somewhere to host them. OGF? GitHub? developerWorks? NCSA?

3/6: Steve has also reviewed.

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17/6: No further progress on tutorials. Tim is looking into the creation of some DFDL how-to videos using the IBM Integration Studio.

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31/3: No further progress

14/4: Agreed that the need for better tutorials has become pressing for Daffodil users who aren't using IBM's tools and material. Discussed creating tutorials based on a tdml file with comments that is processed to produce html. Mike to investigate.

28/4: Mike has sent an example tdml file which embeds instances of a new 'tutorial' element in various places. These elements contain html which can be extracted and formatted in a browser. Suggest future DFDL tutorials are created using this technology.

12/5: Not discussed

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22/9: No further progress

3/11: Daffodil team has someone working on the new 'tutorial' element in tdml files. In time this should result in some new tutorials and re-working of existing tutorials.

5/1/16: Mike has started a bitOrder tutorial using the tdml file approach (uses stylesheets to render html).

250 Standardise on a single tdml format for DFDL tests (All)

5/2: Steve has requested permission for IBM to view / use the Daffodil tdml files, as a precursor to trying to standardise on a common tdml format. Was formerly part of action 066.

18/2: No further progress

11/3: Mike and Steve discussing the best way to share and cooperate on tdml format.

25/3: Discussed the creation of an OGF document that will own and define a standardised tdml format.

11/4: Proposal is for the OGF document to define a tdml format without Tresys or IBM copyright statement.

15/4: Draft document on Redmine

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6/5: No further progress

20/5: Mark has read through the document. Particularly concerned with how namespaces are handled in the infoset.

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17/6: No further progress

25/6: Mike has added bit order capability as per action 233.

9/12: No further progress 6/1/15: Mike to resurrect this as Tresys would like to run their tdml suite against both Daffodil and IBM DFDL. 10/2: No further progress 24/2: Mike updating the Daffodil TDML test runner to handle unparser (ie, serializer) tests 14/4: No further progress 28/4: Tresys have enhanced their tdml runner to allow unparser tests and round-trip tests (parser->unparser->parser) as well as the new tutorial tag (see action 228) 12/5: Not discussed 3/11: No progress 5/1/16: No progress. Needs more interoperability between implementations to be really useful. 279 Improve defaulting description to explicitly cover local groups (Mike) 28/4: Only talks about elements, should mention local sequence and choice. 12/5: Not discussed 23/6: Section 15.1.3 needs to say what happens when a choice branch does not contain any elements; such a choice branch is selected (but see action 280 below as minOccurs '0' might change this). Section 9.4 also needs updating to say what happens when local groups are found within a complex type. 11/8: Steve did some tests with IBM DFDL. Just need some words as above. Action assigned to Mike. 25/8: In progress 3/11: No progress 5/1/16: No progress 282 Does XPath have operators for checking a value is in a range ? (Steve) 12/5: Investigate whether equivalent to DFDL4S 'in' operator exists. 23/6: Mike has found an XPath 'intersect' operator. Handles the enumeration case well, but not as convenient for ranges as DFDL4S's 'in' operator. 11/8: Looked back at the motivating example from DFDL4S. Agreed that DFDL functions to do the equivalent of 'in' and 'inrange' would be useful if nothing can be re-used from XPath. Steve to write up a proposal taking into account different data types. 22/9: Proposal sent by Steve for new functions dfdl:checkValues(), dfdl:checkRangeInclusive(), dfdl:checkRangeExclusive(). Discussed whether both range functions needed, and whether they should be allowed for float and double. Mike noted that dfdl:checkConstraints() and simple types could be used instead of all three functions if values were static. Follow-up with DFDL4S team to see if they had thought of that. 3/11: DFDL4S not happy with usability of dfdl:checkConstraints type, but ok with the intersection operator. Next step is to see what the DFDL4S schema would look like if rewritten to use dfdl:checkConstraints and intersection. 5/1/16: Agreed that dfdl:checkConstraints() is not ideal as it requires creation of union simple types. Steve to go back to his proposal from 22/9/15 and rework to include use of the intersect operator.

Closed actions

No	Action					
285	Ensure spec compliance with RFC 2119 sentence (All)					
	3/11: Both 'required' and 'optional' need removing. Revisit sentence and ensure spec					
	compliance.					
	5/1/16: Closed. Erratum taken, tracked by https://redmine.ogf.org/issues/304.					
131	Transformation of DFDL properties to a canonical form (Joe)					

08/12: Joe has produced a XSLT to transform a DFDL schema to a canonical element form. When tested it should be made available on the WG gidforge site. 15/12: Alan tested against test dfdl schema which worked correctly (after fixing some errors in the schema) 22/12: no update 12/01: Joe has some defects to fix before making available on gridforge. 19/01: There is a difficult problem to solve before Joe make the style sheet public 26/01: Working on problems 02/02: no progress 09/02: As it wasn't a simple as exoected this will be treated as a low priority action 23/02: Low prioity 09/03: Low priority 30/03: Deferring for now 5/1/16: Closed. Requirement has not arisen. Cancelling. 200 Establish recommended practices for pushing changes to GitHub (Mike) 29/1: Mike will talk to Tresys who have used Git a lot. 5/2: Mike to talk to Tresvs this week. Tim has sent some links. 12/2: Information sent by Mike, Steve to review. 2/12: No further progress 14/1: Deferring until needed 5/1/16: Closed. Not really needed as pushes are not frequent. Cancelling. 251 Create official error codes (All) 5/2/14: Create official error codes for all possible errors implied by the DFDL spec . This is a big piece of work, so this action is deferred for now. Was formerly part of action 066. 10/2/15: Un-deferring this action for consideration. The IBM error message numbers could be a good starting point for a list of error codes, although they are a mixture of generic and specific so some revision likely to be needed. Tresys to evaluate. 24/2: No progress 24/3: Mike has read through the IBM error messages and will write up findings 31/3: No further progress 14/4: Mike has sent email. Concluded that this is a large exercise and effort better put in to tutorials. Deferring again. 5/1/16: Closed. Demand has not arisen from community. Cancelling.

Deferred actions

No	Action
241	Public comment: Bi-di properties placement in precedence section (All) 7/11: This looks deliberate but the asymmetry between parsing and unparsing is unclear. Really needs Daffodil or IBM DFDL to implement these properties, which has not happened yet. Deferring this action
	23/9: Candidate to be moved out to 1.1?
242	Public comment: dfdl:valueLength and dfdl:contentLength descriptions (Mike) 19/11: http://redmine.ogf.org/boards/15/topics/63. Agreed that the function names were ok as per errata 3.18, and that the spec is clear that they refer to the grammar regions. However the grammar regions mentioned do not fully include literal nil values. Discussed what happens when parsing - remember the length or re-parse? What about lengthUnits 'characters' when the data is binary? Also the 'Notes' that follow the table need to be reworked. 26/11: Needs wording to handle all the issues found, assigned to Mike. 11/3: Still with Mike

25/3: Mike has sent out revised wording, reviewed by Mark and Steve. Noted that the words need to explain the concept of building a complex element from the bottom up, and these words are equally applicable to several places in section 12.3. Mike to revise accordingly.

11/4: More revised wording sent by Mike. Started to review but realised it needed some off-line preparation and thought. Review for next call.

15/4: Review comments from Steve and Tim. The functions need to be clear that they work off the infoset value. The detailed wording is needed but should be removed to a new sub-section of 12.3, probably at end. Most sub-sections of 12.3, and the functions in 23.5.3 will refer to this new sub-section. 23.5.3 should limit itself to behaviour specific to the functions, such as not potentially represented, the effect of the \$lengthUnits argument. Also discussed what happens if \$path argument returns a nodeset > 1; should be a processing error, can always use a predicate to select one node of an array.

29/4: See various email discussions. Several things noted by Mike, and he recommends a rewrite of some of section 12.3. Then the description of the two functions becomes much simpler. Deferring for now, and will resurrect after current spec revision is finalised. 6/5: Mike is working on a mind map for the length section. Deferring until needed.

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23/9: Rewrite should be postponed to future 1.1. Still need to answer the original questions about the functions though...

Work items:

No	Item	Owner	Target	Status