DFDL WG Call Agenda

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Meeting about Meetings\OGF

ProjectDFDL 1.0Meeting Date16-Sep-14 (Tues)Meeting Time16:00 - 17:00

Created by Steve Hanson on 09-Mar-11 Last Modified by Steve Hanson on 16-Sep-14

OGF DFDL Working Group Call, 16 Sep 2014

Agenda

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

1. Daffodil Open Source Project

Status update.

2. Fixed length elements with initiators Deferred from last call.

Steve has noticed a possible catch 22 with the setting of emptyValueDelimiterPolicy in this scenario. See email.

3. Block escape schemes

Deferred from last call.

Andy has spotted a scenario where what is written does not get parsed in the same way and a character is lost. Only occurs when there is an escape escape character and it is different from the first character of the escape block end. See email.

4. 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

Apologies

IPR Statement

"I acknowledge that participation in this meeting is subject to the OGF Intellectual Property Policy ."

Minutes

Meeting closed

Next regular call

Tues 23rd Sept @ 16:00 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	Created	Modified	

Next action: 272

Actions raised at this meeting

No	Action

Current Actions :

1	No	Action
2	28	Review set of tutorial lessons (All)
		17/9: Lesson 1 proposes a set of lessons, needs reviewing as over 2 years old.
		 22/10: No progress 31/10: Becoming a focus for Tresys. Steve to send his 'Modeling Data Formats using DFDL' powerpoint.

	 19/11: No further progress 26/11: Possibility of help from MITRE high-school student, and from Marisa at IBM.					
	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 th 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 port the existing and new lessons, preferably web-based. Find somewhere to host them. OGF? GitHub? developerWorks? NCSA? 3/6: Steve has also reviewed.					
	 17/6: No further progress on tutorials. Tim is looking into the creation of some DFDL how-to videos using the IBM Integration Studio.					
	 16/9: No further progress					
248	Discriminators and potential points of uncertainty (Steve)					
	28/1: Steve to write up a proposal to prevent a discriminator from behaving in a non-obvious manner when used with a potential point of uncertainty that turns out not to be an actual point of uncertainty.					
5/2: Steve sent an email to check whether choice branches, unordered elements and fl elements should always be actual points of uncertainty, as there are times when there uncertainty, eg, last choice branch; all floating elements found. It was decided that they always actual points of uncertainty. To do otherwise will complicate implementations ar in fragile schemas. Steve will proceed with the proposal on that basis.						
	 25/3: No further progress 11/4: Proposal sent to mailing list by Steve. Concern that having a potential PoU that in practice can never be an actual PoU is counter intuitive and we are better off saying that for certain occursCountKinds there is no potential PoU. The behaviour is therefore the same as for scalar elements. Means that occursCountKind 'fixed' and occursCountKind 'implicit' with minOccurs=maxOccurs behave differently wrt to discriminators. Steve will reword the proposal accordingly.					
	 29/4: No further progress 6/5: Steve came to reword the proposal to say that for certain occursCountKinds there is no potential PoU, but it raised an issue. Steve has resent the original proposal with responses to Tim's questions. It is clear that a discriminator inside an array can not leak outside the array because it is evaluated for each occurrence. But should that be expressed by saying that a) all arrays are potential PoUs and a discriminator can't leak outside a PoU, or b) only some arrays are potential PoUs and a discriminator can't leak outside a PoU or an array. Please can WG members review the email and have a position on the wording. 20/5: Tim has reviewed, back with Steve					
	 3/6: No progress 10/6: Not complete. Decided that next published specification would not include this .					
	 26/8: No progress 2/9: No concrete progress although Steve came across this exact scenario when modelling NACHA Addenda records, and used asserts instead of discriminators to side-step the issue.					

250				
	16/9: No further progress 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			
	 6/5: No further progress 20/5: Mark has read through the document. Particularly concerned with how namespaces are handled in the infoset.			
	 17/6: No further progress 25/6: Mike has added bit order capability as per action 233.			
	16/9: No further progress			
258	Consider allowing more flexible escapeCharacter schemes (Steve) 6/5: Motivated by example of an escape character which is active when in front of an in-scope delimiter, but not when in front of another character. 20/5: Can't model Mike's example with current facilities, but Mike's example is a generalisation of a particular MITRE example. Do we really need this? Jonathan to follow up. 3/6: Closed. Jonathan has provided the background to the MITRE example which was really about initiators and terminators. The generalised use case is perhaps speculative, so it was agreed not to change the DFDL spec to handle this unless a concrete use case emerges. 17/6: Re-opened. vCard 3.0 (http://tools.ietf.org/html/rfc2426) is an example of a format that exhibits the need for this. Need a proposal to handle this case, and which fits in with the existing extraEscapedCharacters and escapeEscapeCharacter property. Noted that using lengthKind 'pattern' is sometimes a way of working round this kind of thing.			
	15/7: No progress 22/7: Steve has started to write up a proposal.			
	26/8: No further progress 2/9: Strawman proposal sent by Steve for comment. Concern over name of new property. Review for next week.			
	16/9: No further progress			
260	 Positional and non -positional sequences (Steve/Tim) 10/6: Spec defines the above but also allows different occursCountKinds within the same sequence which may have different (implied) separatorSuppressionPolicy, which results in a sequence which is a mixture of both. Should this be allowed? If so what are the rules? Can certain combinations be disallowed? 17/6: IBM have discussed internally and will submit a proposal. 25/6: Proposal sent to WG. Initial reaction is that the intended semantic for Positional sequence is option a) - an observer of the raw data can identify an occurrence of an element in the sequence solely by counting separators. 8/7: Tim emailed an example which he would like to discuss before WG decides on option a) or b). 			
	22/7: No progress			

	29/7: Discussed background, Tim and Steve to have a position for next call. 4/8: IBM has held meeting, Steve to write up findings
	26/8: Revised proposal sent by Steve - please review. Need to decide if included in next published spec.
	2/9: Concern from Tim that the proposal still allows 'hybrid' sequences that mix 'positional' and 'non-positional' separator suppression characteristics. The alternative is to prohibit certain combinations of occursCountKind and separatorSuppressionPolicy. If this makes implementation materially easier then it is a possibility, but care must be taken to minimise breakage of existing schemas. Tim to make new proposal. Separately, clarification needed on behaviour of maxOccurs '0' and occursCount '{0}' - see new action 271 .
	 16/9: With IBM
262	Publish updated specification (All)
202	10/6: Start to address Word comments in draft r11. Got to the start of section 12.3 (length
	properties).
	17/6: Extra call held, nearly all comments addressed in draft r12 by Mike. Draft r13 created by Steve for remaining comments plus recent spec errata. Mike aiming to create draft r14 for WG
	review by next week. 25/6: Mike fixing up the references to ensure hyperlinks present in derived html. Then draft r14 can be issued for WG review.
	8/7: Mike has posted draft r15 on Redmine. Please review for next call.
	15/7: Mike and Steve making minor edits, Mike will merge in Steve's. Mike will make the us-ascii-7-bit-packed change noted above in action 233.
	22/7: Draft r17 posted on Redmine. Decided that it makes sense to include the changes from
	action 233 and 224 in the current draft, as these were raised as public comments, the work is
	nearing completion, and there is demand from Daffodil sponsors. 29/7: Draft r18 posted on Redmine. IBM to review asap.
	4/8: Draft r20 posted on Redmine. Mike to create draft r21.
	26/8: Steve reviewed draft r21 and made editorial changes. Mike to create draft r22 which will
	include the bitOrder changes from action 233.
	Discussed what other open actions need to be added before spec can be published. Possibly actions 260, 261, 269.
	2/9: Draft r22 posted to Redmine. All please review.
	9/9: Draft r22 reviewed and approved. Mike creating draft r23 to include recent actions. OGF board have been notified to expect spec revision. Mike and Steve to send assembled collection (draft r23, experience docs 1-3, obsolete GFD.174).
	16/9: Draft r23 created. OGF board sent the collection of documents, will review at their next
	meeting. Experience 3 (bit order) now in public comment. OGF were expecting Redmine Issue
	trackers to be used to track changes to the spec arising from public comments. This makes the
	process more visible to reviewers. Steve has retrospectively created Issue trackers for all
	changes resulting from public comments and feedback since then (http://redmine.ogf.org/projects/dfdl-wg/issues) so that the review is not held up. Suggest that we
	carry on with this going forward.
263	DFDL WG @ OGF 42 (Steve/Mike)
	15/7: Want to demo both DFDL implementations.
	22/7: No further progress
	29/7: IBM has confirmed travel approval for Steve to attend. Agreed to host a presentation followed by a tutorial, which will use IBM DFDL editor to create schemas for a couple of formats
	that can then be parsed by both IBM DFDL and Daffodil. PCAP and vCard suggested.
	Attendees can pre-download the material and follow-my-leader if desired. Steve to confirm with Alan Sill.
	4/8: Alan Sill ok with format. Daffodil team to create kit to enable easy demonstrating of Daffodil.
	26/8: DFDL formally included in OGF 42 agenda, 2 x 1.5 hour sessions Thurs 11th Sept. Steve awaiting Daffodil demo kit.
	2/9: Demo kit received by Steve.

	9/9: Steve has Daffodil working. Will use CSV and Solar Inverter formats for tutorial. 16/9: Steve attended OGF 42. Gave DFDL overview and status session, a demo using CSV model, a more detailed session on DFDL language, and the Solar Inverter tutorial. That took up the 3 hours allocated. 4 attendees but 3 OGF board members who will be reviewing the revised spec. Useful opportunity to discuss spec and review process.
265	Proposed new lengthKind to handle stop -bit encodings (All) 22/7: As used by Fix Adapted for STreaming (FAST) and others.
	29/7: No progress
	4/8: Is this best considered as over-punching or use of 7-bit chars?
267	16/9: No further progress Allow lengthUnits 'bits' for more representations (Mike)
207	29/7: Mike proposes allowing this for all text reps and binary floats and doubles. What about
	decimal and hexBinary? What about complex elements?
268	16/9: With Mike, low priority. Missing XPath functions (Mike)
200	29/7: XPath string-to-codepoints() and codepoints-to-string(), plus more DFDL specific bitwise
	functions.
	 10/0. Milde Miller - Lewether mentioned the EVD-theDiscover edule - winds to information
270	16/9: With Mike. Jonathan mentioned the EXPath:Binary module, might be informative. Investigate ICU handling of embedded whitespace when lax parsing (Richard)
270	26/8: Spec says that it is treated as zeros, not sure that is correct.
	2/9: Richard @ IBM has found different behaviour from ICU for Java and C. Bug tracker
	opened http://bugs.icu-project.org/trac/ticket/11230.
	 16/9: No update to ticket
271	Use of maxOccurs '0' (All)
	2/9: Legal in XSDL and DFDL. One use case in XSDL is when deriving a complex type by
	restriction, where it is used to indicate that an element in the base type must not appear. Another use case could be if a schema undergoes a version revision that removes elements;
	perhaps clearer if the removed element gets maxOccurs '0' rather than omitting it. Steve has
	seen an instance of its use in a DFDL schema.
	So if DFDL continues to support it, need to document the behaviour for the various
	occursCountKinds and what happens to separator. Also behaviour of occursCount expression that returns 0. Proposal needed.
	16/9: No progress

Closed actions

No	Action				

Deferred actions

No	Action
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 update12/01: 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

1	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					
200	30/03: Deferring for now Establish recommended practices for pushing changes to GitHub (Mike)					
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 Tresys 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					
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.					
- 242	Deferring this action.					
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					
251	Create official error codes (All)					
	5/2: 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.					

Work items:

No	Item	Owner	Target	Status
045	Resolve public comments and incorporate into spec	All	2014-04-30	Done
	GFD.207			