TeamRoom Plus

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Meeting about Meetings\OGF

Project	DFDL 1.0
Meeting Date	19-Jun-12 (Tues)
Meeting Time	15:00 - 16:00

Created by Steve Hanson on 09-Mar-11 Last Modified by Steve Hanson on 18-Jun-12

OGF DFDL Working Group Call , 18/19 June 2012

Agenda

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

1. Daffodil Open Source Project

Status.

2. Does DFDL need to support signed integer types with lengthUnits 'bits'?

Spec only allows unsigned integers to have lengthUnits 'bits', but it is possible in C structures to declare bit fields for signed integers. They behave like two's complement. It looks like the spec is being too restrictive in its types for 'bits'.

3. Unsupported style of zoned decimal overpunching encountered

On HP NonStop Tandem architecture, the negative sign is incorporated in the last byte of the number but using the highest bit (ie, 8) of the nibble, instead of the second highest bit (ie, 4). So instead of ASCII characters x70 to x79 representing negative 0-9, characters x80 to x89 are used. Accordingly we should add a new enum to support this, eg, 'asciiTandemModified'. If we do this, then bearing in mind that the positive bit pattern for the high order nibble is 0011 (ie, x3), DFDL will support the following overpunching:

- set the 8 bit (1011) => xB0 - xB9 (Tandem)

- set the 4 bit (0111) => x70 - x79 (standard)

- unset the 1 bit (0010) => x20 - x29 (CA Realia)

4. Should parser check for parent 's terminating delimiters after parsing each child ?

See email thread. If my record format was some required fixed length fields followed by some optional fixed length fields with an indicator for end of record, I could not model the record as lengthKind 'delimited' (unless I used asserts), I would need to use lengthKind 'pattern'. That is as designed, but perhaps worth revisiting whether in-scope parent delimiters should be checked before parsing each child element?

5. Agree on signature for new DFDL function to construct a DFDL string literal

See email. Should we also change DFDL function names to be hyphenated to match XPath's?

6. ICU exponent symbol behaviour .

Errata 2.26.says "Disallow the use of empty string for property textStandardExponentCharacter, and state property must be set if the pattern contains 'E' (schema definition error otherwise)". An intentional side-effect of this rule is that when the pattern does *not* contain the exponent symbol, a DFDL processor can use an ICU API to switch off the use of exponent symbol, so that an exponent in the data will give an error when parsing. This ICU API allows the value of the exponent string to be the empty string. However, it turns out that this does *not* turn off exponent processing in ICU, it just sets the expected exponent character to be empty string! Which means a value such as

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'1234+02' gets interpreted as '1234E+02' using ICU's lax parsing rules, instead of giving an error.

7. DFDL support for transaction log data emitted by IBM 4690 point of sale terminals

See email. These use a particular style of BCD, and allow variable length hexBinary strings. DFDL does not support this today.

8. To help ensure compliance, provide error codes for all possible error scenarios

This kind of thing is done by some of the W3C specs. If such an error code exists, and is output by DFDL processor implementation error messages, it allows TDML files for failure tests to be exchanged without modification. Need to decide on granularity of error codes.

9. 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 (IBM) Mike Beckerle

Apologies Tim Kimber (IBM) Suman Kalia (IBM)

Minutes

The minutes cover the calls of 18th and 19th June. Minutes from 18th below.

1. Daffodil Open Source Project

To be discussed.

2. Does DFDL need to support signed integer types with lengthUnits 'bits'?

Spec only allows unsigned integers to have lengthUnits 'bits', but it is possible in C structures to declare bit fields for signed integers. They behave like two's complement. Agreed that DFDL should support this. Errata taken to permit lengthUnits 'bits' with signed integer types.

3. Unsupported style of zoned decimal overpunching encountered

On HP NonStop Tandem architecture, the negative sign is incorporated in the last byte of the number but using the highest bit (ie, 8) of the nibble, instead of the second highest bit (ie, 4). Agreed that DFDL should support this. Errata taken to add a new textZonedSignStyle enum 'asciiTandemModified'.

4. Should parser check for parent 's terminating delimiters after parsing each child ? To be discussed.

5. Agree on signature for new DFDL function to construct a DFDL string literal

Agreed that making the DFDL function idempotent breaks a more common use case to the one that it fixes. The function will not be sensitive to DFDL string literals in the data. Steve will resend the mail with the function signature.

Should we also change DFDL function names to be hyphenated to match XPath's?

6. ICU exponent symbol behaviour .

To be discussed.

7. DFDL support for transaction log data emitted by IBM 4690 point of sale terminals

To be discussed.

8. To help ensure compliance , provide error codes for all possible error scenarios To be discussed.

Meeting closed

Next call

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

View: ResultDocs

Next action: 176

Actions raised at this meeting

No	Action

Current Actions:

No	Action
123	DFDL tutorial (Steve) 13/10: Draft of first 3 chapters has been written and will be distributed to WG 10/11: Posted to grid forge here (http://forge.gridforum.org/sf/go/doc16106?nav=1), work continuing at IBM to define a standard example-based chapter framework and to author

additional chapters. Contributors welcome!

17/11: Steve, Stephanie and Alan had a meeting to discuss the best structure for the tutorial and decide which examples to use throughout. The meeting raised more questions. Further discussions will be held.

24:11: The list of topics to be covered in the remaining lessons has been produced and a lesson template. Alan will write lesson 4

01/12: Alan has started lesson 4 which covers fixed and variable fields and arrays.

08/12: Alan has almost completed lesson 4. Will send out for review.

15/12: First draft of lesson 4 is available for review. Alan to send to Bob and Joe.

22/12: Alan has distributed drafts for tutorials on Basic Structure and Optional/Repeating elements. Please review

12/01: Alan distributed a tutorial for choices and updated the others. Alan and Steve reviewed them and updated versions will be sent soon. Should start on the 'representation' tutorials soon.

19/01: The tutorials for basic structure, optional/arrays and choices have be updated. Please review. The tutorial for text elements should be available soon.

26/01: No comments received about 3 tuorials distributed last week. Alan is still working on Text representation.

02/02: Steve has sent comments on three tutorials. Alan to send updated versions by the end of the week. Alan has also distributed the first part of the tutorial on text representation and would like feedback.

09/02: Steve had reviewed tutorials 3,4,5 and updated versions have been distributed. Joe reviewed lesson on text elements.

Main points. Using 'represented as text' is confusing. Examples are too cluttered. Suggest simple targeted examples but still build up to final complete schema

23/02: New versions distributed and Steve has commented.

02/03: Alan has published the final versions of tutorials 4,5,6 and is working on text respresentations. There was some discussion about the detail that needs to be covered. Should limit it to 'common usage' and refer to the spec for details of edge cases. 00/02: Alan distributed an undate to the text tutorial. Please review.

09/03: Alan distributed an update to the text tutorial. Please review.

30/03: Steve has spent half a day tidying up lessons 1 to 6 and has uploaded them as pdfs to gridforge. They are now more coherent, and many inconsistencies and errors fixed. Ownership of draft lessons (text properties, binary properties, advanced features) has been passed to Steve. Also need to make a schema available for the examples.

13/04: Steve is working on the text properties tutorial.

04/05: No progress

15/06: This is on hold until Steve clears up spec issues and other workload. Steph has looked at the later lessons, and noted that they are more direct compared to the more wordy earlier lessons.

28/06: On hold.

29/11: Tim offered to take a look at the next outstanding tutorials. Steve / Tim to discuss 6/12: No progress

10/01: No progress, offer from Mike to help. First step is to make any corrections due to errata.

17/01: No progress

24/01: No update

31/01: Daffodil project team will be working their way through the existing tutorials and reviewing

14/02: Daffodil team to start reviewing tutorials hopefully this Friday.

21/02: Moved to this coming Friday

28/02: No update

13/03: No progress

21/03: No progress from Daffodil team. IBMers are starting to use the tutorial and will feedback any comments.

28/03: No change

05/04: Steve will send Alan's two draft lessons on binary & text data to Mike to complete. 17/04: No progress

8/5: No update

140	19/6: No progress Spec issue: Parsing: 'missing' v 'empty', role of initiators , default values (All)
140	01/06: See minutes.
	08/06: Still under discussion. Tim has sent Mike a selection of data formats to guide the
	discussion.
	15/06: Not discussed - an extra call has been scheduled to go through this.
	28/06: A series of extra calls are being held between Mike, Steve, Tim and Steph.
	05/07: Next extra call is Wed 6th July - Steve to send invite
	12/07: Two more calls held. Next call is Wed 13th July.
	19/07: More calls held, next call is Fri 22nd July.
	26/07: More calls held, good progress
	16/08: Steve will set up next call for when Tim has returned from holiday
	23/08: Two more calls scheduled for this week, remaining issues: separator suppression,
	empty strings, sparse arrays (see action 136)
	30/08: Call held earlier today. Still remaining - separator suppression (matrix); sparse
	arrays; empty strings; empty value delimiter policy. Steve to summarise where we have g
	so far before remaining items are tackled. 20/09: Steve has summarised where we are with action 140, which Tim and Mike have
	reviewed. 2 hours call planned for Thursday.
	27/09: Calls held, progressing the separator suppression behaviour
	4/10: More calls held, progressing the separator suppression benaviour 4/10: More calls held, progressing separator suppression, sparse arrays (see action 136)
	and emptyValueDelimiterPolicy behaviour
	18/10: All issues now in a single document, call held earlier today. Next call Thursday.
	1/11: Extra calls still ongoing
	8/11: Extra calls still going, when action 140 document complete will send to Steph for
	review
	15/11: Mike is verifying the action 140 conclusions by writing an algorithm in SCALA whic
	can be ultimately be used in Daffodil
	22/11: Call to be held next week
	29/11: Next call 30/11
	6/12: Next call 7/12
	13/12: Had call earlier today, making good progress. Next call first week of Jan.
	10/01: Next call to be scheduled for Wed or Fri
	17/01: No call last week, call tomorrow
	24/01: Two calls held, next call Wed, looking at separator suppression
	31/01: Separator suppression discussions ongoing, proposal to rename policy and enums
	Call later this week. 14/02: Now looking at separator suppression and unparsing. Next call on Friday
	21/02: Separator suppression on parsing/unparsing matrix agreed. 28/02: Two more calls this week
	13/03: Call tomorrow
	21/03: Two more calls held
	28/03: Hopefully all issues now addressed. Steve to start folding in action 140 document
	comments into the body of the document.
	05/04: Still with Steve. Noted that action 140 will not be in the next spec rev, likely the on
	after.
	17/04: No further progress
	8/5: Steve has started rewriting the action 140 document
	23/5: Steve continuing the work on the action 140 document. Empty/missing/defaults and
	Arrays have been rewritten. Separators not started. Please review.
	12/6: Steve will resend the latest action 140 document for review. Note use of 'missing
	representation' to describe zero length input data with same semantic as missing altogeth
	19/6: Latest action 140 resent. Separate call on Thursday this week.
146	Model NRL's bit-oriented format where complex repeating element carries a 'last'
	indicator (Steve, Mike)
	19/07: NRL to send xsd and example of format.
	26/07: Steve/Tim put forward a proposal that used a discriminator that looked at the
	previous item's repeatBit in the array and failed if it was 0. This looks like it will work. Mik
	to add the correct DFDL annotations to take into account both repeatBit and presentBit in
	single discriminator, and auto-set them using outputValueCalc.

	A more usable solution to the 'last indicator' problem is desirable though. Noted that this has				
	a 'repeatuntil' semantic. 16/08: Adam and Ryan to evaluate Steve/Tim proposal as it is potentially fragile relying as it				
	does on backtracking.				
	23/08: Adam and Ryan had meeting with Boyd Fletcher and others, still evaluating to see				
	whether change to spec is needed to handle this better.				
	 30/08: No update 20/09: Looking like a spec change would be beneficial. Adam will provide details within the next month. 27/09: Waiting to hear from NRL. Mike to find out how they are progressing. 4/10: Mike will contact NRL to see how things are progressing. 18/10: No update - Steve & Mike to chase 1/11: No update 8/11: Update on NRL via Mike - staffing the team to carry forward the DFDL work 15/11: No update 				
	22/11: No update 29/11: NSA still expressing an interest in Daffodil 6/12: No update 13/12: NSA held a meeting with Steve & Mike to discuss their contributing to Daffodil through 2012				
	10/01: Will be added as an action item for the Daffodil Open Source Project				
	 17/04: On hold				
	8/5: Discussed with NSA at CTDF follow-up meeting. This is the VMF format. They will				
	actively look at this action.				
	23/5: Jeffrey Jacobs from NRL assigned to this action.				
	12/6: Expected to be looked at soon				
161	19/6: No update from Jeffrey Fold errata into DFDL spec (Mike/Steve)				
101	17/01: Start with Steve updating spec to include his marked up changes				
	 14/02: Steve has published errata document v8 which includes all resolved errata up until				
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	12/6: Steve seeing formatting loss in Word 2003. Steve will install Word 2010 and see if that is the problem. Steve will resend errata v009 for review. Next step is to get action 140 incorporated into errata v010. 19/6: Steve has applied for license at IBM, but will also check from home PC.
170	Provide words for errata 2.54 on ICU lax/strict parsing of text number patterns (Richard - IBM) 17/04: Need to define the basic (lax) parsing behaviour then define strict behaviour. 8/5: No progress. 23/5: Richard has started to create a set of tests to explore the behaviour when parsing 12/6: Continuing 19/6: Continuing
171	Decide on precise applicability of new encodingErrorPolicy property (All) 23/5: To what stages of the parsing and unparsing processes does it apply, and to what types. 12/6: Tricky one to solve and could possibly defer to DFDL 2.0? Meanwhile see what MRM does. 19/6: Ask Tim to see what MRM does
172	Clarify how a DFDL string literal is matched against the data stream (Tim) 23/5: Non-trivial algorithm, worth stating it in the spec. 12/6:No progress 19/6: No progress
173	 Review Mike's DFDL string literal usage spreadsheet (All) 23/5: May be found here: https://docs.google.com/spreadsheet/ccc?key=0AkXeiz4S7y0pdHpOdkJaWEtrS0kzWThEel 9KamhGdkE#gid=0 12/6: No progress, review for next call please 19/6: Reviewed by Steve and spreadsheet updated during call. Key items from the review: a) When nilKind is 'literalCharacter' or 'literalValue' and rep is binary, should we allow normal characters and DFDL character entities as well as raw bytes and %ES. Check with Tim if this causes problems for an implementation. This affects errata 20 which introduced the restriction based on result of call on 27th September 2011, although prior to that the restriction was even tighter for 'literalValue'. b) When property takes a logical value and is of type xs:string, is just allowing XML entities flexible enough? Two properties affected are nilValue and occursStopValue. Thought process had been that for nilValue just use 'literalValue' instead, and for occursStopValue use a terminator on a parent array element.

Closed actions

No	Action		
175	Decide the fate of the overly strict parent /child alignment rule (All)		
	12/6:Either drop altogether or limit to first child element.,		
	19/6: Closed. Restriction will be dropped entirely.		

Deferred actions

N	0	Action
12	29	Press release to publicise DFDL (Steve)
		Steve is pulling together a press release at IBM. Want to include as many contributors and interested parties as possible.NCSA are keen to be included. Also likely that US National Archive will want to be included. Mike has indicated OCO are too. 17/11: no progress
		 08/12: Still no response from IBM press office 15/12: no progress
		 09/03: No progress
		30/03: Making this action deferred until IBM is in a position to say something more concrete about any implementation.
13	81	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: Lee has some defects to fix before making evailable on gridferee				
	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				
066	Investigate format for defining test cases (All) 25/11:IBM to see if it is possible to publish its test case format. 04/12: no update				
	17/02: IBM is willing in principle to publish the test case format and some of the test cases. May need some time to build a 'compliance suite' 24/03: No progress				
	03/03: Discussions have been taking place on the subset of tests that will be provided. 10/03: work is progressing 17/03: work is progressing				
	31/03: work is progressing 14/04: And XML test case format has been defined and is being tested. 21/04. Schema for TDML defined. Need to define how this and the test cases will be made				
	public 05/05: Work still progressing 12/05: Work still progressing				
	02/06: Work still progressing on technical and legal considerations				
	 25/08: Will chase to allow Daffodil access to test cases. The WG should define how implementation confirm that they 'conform to DFDL v1' 01/09: IBM still progressing the legal aspect. Intends to publish 100 or so tests as soon as it				
	can, ahead of a full compliance suite. 08/09: IBM still progressing 15/09: IBM still progressing, expect tests to be available within a few weeks				
	22/09: IBM still progressing, expect tests to be available within a few weeks 29/09:Test cases are being prepared. 06/10: Some test cases should be available next week. Steve would like to be able to show				
	the test case information at OGF 30. 13/10: Still progressing				
	10/11: Legal issues cleared, IBM in process of collecting 100 example test cases, ideally ones that fit the 'extended conformance' of NCSA Daffodil 17/11: Work is progressing on verifying the test cases. It should be possible to distribute to				
	the WG in 2 weeks. 24/11: About half the test cases have been completed and are being reviewed internally. 01/12: Test cases should be available shortly				
	08/12: The test cases are in internal IBM review. Probably need a bit of reorganising before publication Stephanie gave a brief overview of the format of the test cases.				
	15/12: Ruth joined the call to provide the latest status. The test cases have been updated and a draft read.me produced. Although not ready for public distribution Ruth will send them to Joe for feedback.				
	22/12: Test cases were sent to Joe for initial testing which found some problems in the Daffodil parser				
	12/01: All current tests use a default format whih Daffodil doesn't currently support. Joe suggested that there should be test that defined the same function using different definition forms. Also suggested that default formats should be provided by the WG. This had always been the intention. Action 133 raised to track.				
	19/01: There is currently no resource available in IBM to make more tests available. IBM to				

discuss how/if it can make a 'minimal compliance test suite' available. 26/01: Action kicked off within IBM. There was a brief discussion abot naming and organisation of test cases but no preferences were expressed 02/02: IBM will not have the resources to develop a full test suite in the near future. Steve suggested that we produce a list of required test cases so that anyone could supply them. 09/02: Steve had previously sent a list of areas to be tested. Please review. 23/02: Please review Steve's list of areas to be tested 02/03: Alan had reviewed Steve's list and we went through his comments. Agreed there is no need for separate tests for the infoset or for dfdl: property lists, unions etc but comment will be added that these should be exercised during property testing. 09/03: Alan updated the test document. Need more introduction and perhaps adopting the OGF template. 30/03. Ownership of test document passed to Steve. This action is merged with 112 and will cover all aspects of compliance suite. 13/04: IBM will not have time to create a compliance suite in the near future. Probably best to make this action deferred for now.

Work items:

No	Item	Owner	Target	Status
	Track errata list for 1.0 of the spec.	Steve	N/A	Draft 0008 on
	http://forge.gridforum.org/sf/go/doc16280?nav=1			grid forge.
044	Incorporate errata list into DFDL spec.	Steve/Mike	N/A	Draft merged
				document.

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