TeamRoom Plus

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Meeting about Meetings\OGF

Project	DFDL 1.0
Meeting Date	08-Nov-11 (Tues)
Meeting Time	15:00 - 16:00

Created by Steve Hanson on 09-Mar-11 Last Modified by Steve Hanson on 08-Nov-11

OGF DFDL Working Group Call, 8 November 2011

Agenda

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

1. Further spec issues

As implementation has progressed, a number of issues have been spotted in the DFDL 1.0 spec by the IBM implementation team and others. Remaining items for resolution:

2.4. Validation and unparsing. In the last call it was noted that validating the infoset then applying certain DFDL properties can cause the value to change from valid to invalid when serialized. I have just noticed that section 2.4 defines an unparse validation error in terms of a parse validation error. I think we should discuss.

4.1.2. The infoset section on [dataValue] says that for a string, unknown characters or ones that are unrepresentable in ISO 10646 get substituted by the Unicode Replacement Character U+FFFD. It has been noted that this might not be the desired behaviour by some systems.

ICU provides 4 different ways of handling illegal sequences:

- Skip -> skip the character.
- Stop -> stop and throw an error

- Substitute -> substitute with character defined in codepage

- Escape -> replaces with the hexadecimal representation of the illegal character.

Should DFDL stipulate a behaviour or leave it up to implementations to offer at least one of the above?

4.1.2 Related to previous point. There is also an ICU option to enable what are known as 'fallback mappings'. The typical example of this is when a Unicode reverse solidus, '\', is converted to Japanese. The primary codepage mapping will fail, but the codepage provides a fallback to the Yen symbol.

13.5. Should nilValueDelimiterPolicy apply to nilKind 'logicalValue'? Implementation concerns.

9.2. Concern that in the grammar FinalUnusedRegion is in the wrong place. In its current position it is intended to handle the two 'box' scenarios that arise due to settings of complex element lengthKind and choiceLengthKind. But it looks like this can lead to a region in the data that can not be modelled if a complex element's sequence or choice has a terminator. New proposal:

ComplexElement = ElementLeftFraming ComplexContent *ElementUnused* RightFraming

ChoiceContent = [Element | Array | ComplexContent] ChoiceUnused

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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 (IBM) (co-chair)

Apologies

Minutes

1. Further spec issues

The following were discussed

Meeting closed

Next call

Tues 15th Nov 2011

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

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. 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
	18/05: No progress 01/06: No progress 08/06: 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.

	8/11: On hold
132	Publishing DFDL xsd (Suman)
	08/12: Agreed that it should be made available. Suman has started the approval process in
	IBM
	15/12: no progress
	22/12: no update
	12/01: Suman is getting approval from IBM to publish.
	19/01: Waiting to get IBM approval to publish
	26/01: no update
	02/02: No update
	09/02: no update
	23/02: no update
	02/03: Suman is working through the IBM process to permit publication. There was
	discussion about what licence the XSD would be published under and how that would effect
	use in products. Suman to investigate
	09/03: No update
	30/03: Suman has sent information to IBM legal. Reminded him about the license issue.
	13/04: No update.
	04/05: IBM has permission to release the DFDL model xsds to WG members only, Suman
	has a couple more changes to make and will send to Steve for review. License clarification
	needed.
	18/05: Awaiting response from IBM legal. Suman will send Steve the model xsd for review. 01/06:
	08/06. Awaiting response from IBM legal. Suman will send Steve the model xsd for review.
	15/06: Steve has received the xsds (there are three of them) and will review.
	28/06: Not reviewed yet
	05/07: Need to fully understand what WG members are able to do with it. The real
	usefulness is in other implementers being able to use the xsds to validate DFDL xsds so the
	license needs to reflect this.
	12/07: No further progress
	19/07: Suman will talk to IBM legal and make it clear that the license must allow users to
	actively use the xsds.
	26/07: No update
	16/08: Steve has reviewed and sent comments to Suman. Suman has asked legal to clarify
	re-distribution rules, taking into account OGF licensing terms and patent filing.
	23/08: No update
	30/08: Steve has reviewed words from IBM legal. It looks like that once the xsds are
	published by OGF then they are free to be used under the normal OGF licensing terms.
	Steve needs to clear all this with IBM legal in Hursley, as the DFDL mission is owned by
	Hursley in UK.
	20/09: Steve has mailed IBM Hursley legal
	27/09: Steve to meet with IBM Hursley legal
	4/10: No further progress
	18/10: Steve has met with legal, can publish the xsds after tidy up. Will create OGF info
	document.
	1/11: No further progress
100	8/11: Waiting for Steve to find time to do this
133	Make a set of default formats available (Suman) 19/01: Suman expects some default formats to be ready by Feb 9th. Will need approval to
	publish
	26/01: Stephanie sent the defaults used by test cases to Suman
	02/02: no update
	09/02: no update
	23/02: no update
	02/03: Same as 132
	09/03: No update. Same license issue apply though.
	13/04: No update.
	04/05: IBM will make one default format available. Suman is working through the IBM
	process to permit publication.
	18/05: Awaiting response from IBM legal.

	08/06: Awaiting response from IBM legal. IBM also want to prove that the default format has the properties sensibly defined to plans to include in internal testing. 15/06: No change.
	19/07: 19/07: Suman will talk to IBM legal and make it clear that the license must allow users to actively use the format xsd(s). 26/07: No update
	16/08: Same issue as action 132 23/08: No update
	30/08: As action 132
	20/09: Steve has mailed IBM Hursley legal 27/09: Steve to meet with IBM Hursley legal
	4/10: No further progress
	18/10: Steve has met with legal, can publish the xsds after tidy up. Will create OGF info document.
	1/11: No further progress.
	8/11: Waiting for Steve to find time to do this 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 got
	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 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
145	Provide a 'dispatch' way of discriminating a choice for better performance of the envelope/payload use case (Steve, Mike, Suman)
	12/7: See minutes. Need to choose a proposal and flesh out.
	19/07: Waiting for proposals 26/07: Waiting for proposals
	16/08: Waiting for proposals. Suman added to action.
	1/11: Steve to send a proposal 8/11: Waiting for Steve to find time to do this
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. Mike
	to add the correct DFDL annotations to take into account both repeatBit and presentBit in a
	single discriminator, and auto-set them using outputValueCalc.
	A more usable solution to the 'last indicator' problem is desirable though. Noted that this has

	 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:
153	Decide which TZ schema to adopt to extend dfdl :calendarTimeZone (Steve)
	18/10: Need to keep as close to ICU as possible as an aid to implementers.
	1/11: No progress
	8/11: Waiting for Steve to find time to do this

Closed actions

No	Action

Deferred actions

No	Action
129	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.
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
066	Investigate format for defining test cases (AII) 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

043	Track errata list for 1.0 of the spec. http://forge.gridforum.org/sf/go/doc16280?nav=1	Steve	-	Draft 0004 on grid forge.
044	Incorporate errata list into DFDL spec.	Steve	TBD	

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