TeamRoom Plus

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Meeting about Meetings\OGF

Project	DFDL 1.0
Meeting Date	09-Aug-11 (Tues)
Meeting Time	15:00 - 16:00

Created by Steve Hanson on 09-Mar-11 Last Modified by Steve Hanson on 27-Jul-11

OGF DFDL Working Group Call, 9 August 2011

Agenda

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

Open Grid Forum : Data Format Description Language Working Group

OGF DFDL Working Group Call, 9 August 2011

1. Spec issues from Mike Beckerle

A number of issues have been spotted by Mike. Some have been resolved by action 139 below, but others remain. Last remaining issue:

12.3.7.1.3. Byte order mark

Byte-order marks are explicitly stated to be "not characters" in the Unicode standard.

No such thing as a BOM codepoint in a UTF-8 string. A UTF-8 byte sequence might encode the character code for a BOM, but this would be a meaningless inclusion of a BOM character code in a context where it will never be interpreted. I suggest that we drop the term UTF-8 here, and BOM's that get encoded when they are interpreted as character codes, and translated by the UTF-8 encoding algorithm into a multi-byte UTF-8 byte sequence, is handled the same way as other non-characters, i.e., what do we do when a high or low surrogate codepoint is present and we're to encode as UTF-8. I think the answer is we run the UTF-8 encode/decode algorithm, and whatever Unicode character code it creates is what it creates, and if that happens to come out as any of the non-characters (BOMs, surrogates, others perhaps), so be it.

The topic is about Unicode non-characters, not specifically BOMs.

The general topic is encoding/decoding our infoset Unicode character codes which have no real representation in the specified encoding.

2. Further spec issues from IBM

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

17. InputValuecalc and OutputValueCalc and applicability to simple types. The spec is confused on this issue. The descriptions of the properties say dfdl:element only, but the text above that allows them for simple types. The property precedence implies they are allowed.

The prefixLengthType description in 12.3.4 specifically disallows OutputValueCalc.

Steve thinks that originally they were not allowed on simple types, until it was observed that you might want to model a prefixLengthType as a hidden complex element and use inputValueCalc to access it. That's powerful and could get you out of a hole.

Question - do we really need that complexity in DFDL 1.0 ?

Note that IBM implementation currently assumes elements only.

IBM TeamRo

17. InputValueCalc. Description talks about returning an empty string being ok if minLength permits this. I would have thought that inputValueCalc is allowed to return any value corresponding to the base built-in type, and that a validation check, if enabled, would pick up any violation of facets in the usual manner. Suggest deleting this text as it is just one example of many.

17. We decided recently that inputValueCalc, outputValueCalc and hiddenGroupRef could not be put in scope via dfdl:ref. But presumably it is still possible for an element reference or group reference to use these properties? Clarify whether these properties may be set on local object, global object and/or reference to global.

3. 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.

Open Grid Forum : Data Format Description Language Working Group

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Attendees

Apologies

Meeting closed

Next call Tues 16th Aug 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

View: ResultDocs

Next action: 149

Actions raised at this meeting

No	Action

Current Actions :

 and decide which examples to use throughout. The meeting raised more questions. Furth 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. 	_ r	No	Action
 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. 	1	23	 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.

	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.			
	26/07: On hold			
124	DFDL web content on OGF standards pages (Steve, Bob)			
	13/10: no progress			
	10/11: no progress			
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	conversion of spec and tutorials from pdf to html for usability from browsers.
	13/04: Bob still sorting out the Defuddle updates. IBM work to convert the spec to html has
	started.
	04/05: Jim Myers has updated the sourceforge download page but not the Defuddle
	home/overview pages, Bob will chase. IBM has converted the spec to html pages, needs
	some tidying before being made public.
	18/05: IBM aims to publish the web version by end June. Steve checking with OGF whether
	the web spec is a 'derivative work' in terms of the copyright notice, or can be considered an
	actual copy of the spec.
	01/06: Still waiting on status of web spec from OGF
	08/06: OGF have come back to us and said that it is ok to create a web version of the spec.
	If it is unchanged then it is a copy, otherwise it is a derivative work. Either way, the copyright
	covers this so there is not a problem. The web version is looking good, some minor tidy-up
	changes needed where formatting is not quite right. When IBM is happy with it, Steve will
	circulate to the WG for review.
	15/06: Ongoing
	28/06: Steve needs to take a final look at all the pages, get any problems fixed, then
	distribute to the WG
	05/07: Reviewed, some editorial changes needed, and a problem with the table numbers
	getting reset across pages. When these are fixed Steve will distribute.
	12/07: Editorial changes made, fixing the table numbers and also XML indentation in
	examples.
	19/07: Work has started to address the two issues noted on 12/07.
	26/07. Changes made, Steve will distribute to the WG prior to posting on the OGF web site
	and updating the Wikipedia link.
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
	19/07. Suman will talk to IDW legal and make it clear that the license must allow users to
	actively use the year
	actively use the xsds.
	26/07: No update
133	26/07: No update Make a set of default formats available (Suman)
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	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. 01/06: 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).
136	26/07: No update
130	Arrays with missing elements (Steve) There is a problem when there are empty/missing array elements with an index greater than minOccurs. For example:
	xs:element name"array" minOccurs=0, maxOccurs=10 lengthKind='delimited'
	Datastream: ,,,value3,value4
	Infoset will contain: array[1] = value3 array[2] = value4
	This is because elements with an index greater than minOccurs are optional and so do not get defaulted.
	Unparsing this infoset will produce:
	Datastream: value3,value4
	You could make the empty space (%ES;) the nil value which will work for simple elements but not for complex.
	Infoset will contain: array[1] = nil array[2] = nil array[3] = value3 array[4] = value4
	 23/02: Discussed options 1. Changed definition of required for arrays to be 'required up to the last instance in the data stream of the array' 2. add index to the element info item Steve to investigate if XDM uses an index. 02/03: No progress 09/03: No update
	30/03: Stephanie recognised the issue from IBM's WTX. Here, the solution was to provide an option so that the user explicitly chose whether the position in the array was significant, as it is not always and on output some users do not want defaults or blanks to appear. Not yet resolved. 13/04: Steve has verified that XDM does not carry index information, but will check with IBM's W3C rep to see if that has ever been expressed as a requirement. Steve also said that the area of defaulting missing required elements on parsing (especially complex elements) is one that the IBM implementation team has raised some concerns about, so Steve and the team are looking at this area again. It is possible that the spec will change to

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19/07: More calls held, next call is Fri 22nd July. 26/07: More calls held, good progress			
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Closed actions

No	Action

Deferred actions

Action		
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.		

1	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			
	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			
	 25/09: Will shoes to allow Deffedil assess to test space. The WC should define how			
	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 JBM review. Probably need a hit of reorganising before			
	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.			
ļ	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
ſ		Track errata list for 1.0 of the spec. http://forge.gridforum.org/sf/go/doc16280?nav=1	Steve	N/A	Ongoing
	044	Incorporate errata list into DFDL spec.	Steve	TBD	

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