TeamRoom Plus

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Meeting about Meetings\OGF

Project	DFDL 1.0
Meeting Date	18-May-11 (Wed)
Meeting Time	15:00 - 16:00

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

OGF DFDL Working Group Call, 18 May 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, 18 May 2011

1. Current Actions

2. Errata noted

 a) State that dfdl:inputValueCalc and dfdl:outputValueCalc can either be a DFDL expression or empty string (which switcl property off)

b) Clarify what happens on parsing when nilLiteralCharacter is the same as padCharacter.

Observed that on unparsing the rep value of an element is set to the correct length string of that character => padCharacter be used. On parsing, it makes sense therefore to state that nilLiteralCharacter test takes place on the untrimmed rep value of the value of

3. DFDL <-> XDM Mapping review

Steve has distributed a draft of this for review.

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.

Open Grid Forum : Data Format Description Language Working Group

OGF DFDL Working Group Call, 18 May 2011

Attendees
Steve Hanson (IBM)
Suman Kalia (IBM)

IBM TeamRo

Apologies

1. Current Actions

Updated below

2. Errata noted

The following changes will be made to the spec via the errata process:

a) State that dfdl:inputValueCalc and dfdl:outputValueCalc can either be a DFDL expression or empty string
b) On parsing, state that nilLiteralCharacter test takes place on the untrimmed rep value.
More errata likely as implementation work proceeds.

3. DFDL <-> XDM Mapping review

Suman has reviewed the document, no concrete issues, some editorial changes which Steve will make. Suman suggested that a UML diagram of XDM be included. Steve was unable to locate one. Suman will see what he can find. Steve will publish the document on GridForge when Suman responds.

4. AOB

None

Meeting closed

15:25 UK

Next call

Wednesday 1 June 2011 15:00 UK (10:00 ET)

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: 138

Actions raised at this meeting

No	Action

Current Actions :

No	Action
111	 Daffodil DFDL parser (Bob, Joe) 11/08: Bob and Alejandro described the new implementation that they have developed. It is a new code base and is not based on the Deffudle prototype. It is written in scala and implements approximately 80% of the features in the public comments draft of DFDL V1. Alejandro will send a list of the features not implemented. We discussed the scenarios that motivated the development which was to extract data from various sources and transform into canonical formats. Bob offered to make Daffodil available for the WG to assess the functionality. IBM WG members will get approval the company to allow them to receive Daffodil. Bob raised the question that if Daffodil becomes the public implemented of DFDL then we will need to work out how that would be funded and managed. It would be helpful if IBM test cases were available to Daffodil. IBM will investigate 25/08: Alejandro had sent a list of the functions that he has implemented and Steve and responding indicating the extra functions he thought were essential. Since then Alejandro has implemented some of the missing functions, such as escape schemes, pre-defined variables, binary decimal numbers, etc, and will update his list. Bob is planning to make the parser available on the internet to allow testing. His organisation is being reorganised and he doesn't know what the priority of Daffodill will be so it is essential that we move quickly. It would help if IBM could indicate its support for Daffodil in some semi-formal way. 01/09: Alejandro updating Daffodil to include escape schemes, unordered sequences and

ignoreCase.

Daffodil being placed under formal source control in anticipation of external release. Bob has a start October deadline to create a report on what has been done for his sponsors. It would be great if we could get Daffodil on the web and have run some IBM tests so it could be highlighted at OGF 30 at end October.

08/09: Alejandro is marking up Spec draft 42 to indicate which features Daffodil implement. Bob expects Daffodil to be available on the web soon.

15/09: Alejandro had indicated in the specification which functions were implemented in Daffodill. Steve had reviewed and identified which function need to be implemented and which could be considered optional (see action 099). Alejandro is implementing the missing core functions. There was some discussion about the limitations on unordered groups. (stop value and expression not supported). It was agreed that it should be a schema definition error if dfdl:occursCountKind is 'stopValue' on any element within an unordered sequence and a floating element.

22/09: not discussed

29/09: not discussed

06/10: Alejandro has left NCSA. Bob is making the case for continuing and having a replacement. Bob to agree with Steve what can be said at OGF30.

13/10: Bob still progressing project funding and making Daffodil publically available .

10/11: NCSA internal & sponsor (US National Archive in Washington DC - Electronic Records Administration) reviews passed. NCSA have new resource allocated - Joe Futrelle. Bob has started open source paperwork. ETA end December.

17/11: Joe has started coming up to speed with Daffodil. Bob is waiting for signoff from the university to open source the code.

24/11: not discussed

01/12: Joe is becoming familiar with the code. Waiting for university to give permission to make available.

08/12: Disclosure process in progressing. Bob has permission to make the web page available so hopefully that will be soon.

The US National Archive have an article on their website about DFDL. Unfortunately it is a little out of date.

15/12: Hope to get permission to make the source code available within days. Web demo page will be available when resources have been identified.

22/12: An internal demonstration web page has been made available. Initial testing highlight some problems. Joe investigating.

12/01: Web site has been move to a public URL <u>http://daffodil.ncsa.uiuc.edu/</u>. Joe thinks there are multiple problems that will show up when he can run the test cases.

19/01: Joe has had little time to work on Daffodil. Without significant research into the code it is difficult to know how compliant daffodil is. Discussed if there are ways the WG could help. Suggestions

- Help review the code

- Review the Daffodil test cases for correctness

- Simplify the IBM test cases to be 'unit tests'

Alan to ask for permission to review test cases and possibly simplifying the IBM test cases 26/01: Joe has ot had any time to work on Daffodil. We briefly discuessed if it was possible to use XSLT to transform test cases so they didn't use defaulting but it didn't seem possible and effort would be better targetted at the Daffodil code.

Alan had asked for permission to view test cases and subsequently heard that it has been given.

02/02: Joe will send the Daffodil test cases for Alan to review.

09/02: Alan has received the test cases and will feed back comments. Joe is looking at support for the default format

16/02: Alan has corrected some of the daffodil test cases and identified common problems 23/02: No update

02/03: No progress

09/03: No progress

30/03: From Joe: "The current status of my work is that, having identified issues with the schema parser, I am now going to attempt to independently assess the processors. That is: I am going to hand-configure the processors in a series of tests so that I can see what they can parse and what they can't. In the process I may be able to refactor them so that they are less closely coupled to the schema parser, setting the stage for a new schema parser

	limplementation "
	 implementation." 13/04: Joe has analysed the schema parser part of Daffodil - it is looking for annotations in wrong place, scoping are rules broken, it is using wrong property names. Needs a rewrite. But the parser itself is in better shape. Unfortunately Joe is leaving NCSA in 4-5 weeks time. Net is that any Daffodil on the web will be a partial, non-conformant implementation. Must make it very clear that this is the case. Also unlikely that Joe will be replaced. Joe will see whether there is any chance to work on DFDL in his new job. 04/05: Bob will create some white papers on what to do when implementing a DFDL parser, on the state of the current Daffodil implementation, and on lessons learned. The former is of particular interest as the IBM implementation is throwing up some interesting design points and a couple of difficulties in the area of empty/missing/nil/default processing. 18/05: No update
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
124	18/05: No progress DFDL web content on OGF standards pages (Steve, Bob)
	13/10: no progress
	10/11: no progress
	17/11: Alan has looked at the OGF web pages and there aren't many standards listed. Some
	of the links point to very short primers rather than the specification
	08/12: Alan to produce some information to be ready for when spec is approved. Still no
	word about is it was discussed/approved at OGF meeting

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	15/12: no progress
	22/12: Steve has developed a summary web page for DFDL which will be sent to OGF when
	spec is approved.
	12/01: Not heard from Joel about updated OGF pages Alan to chase.
	Will also track other site updates: Wikipedia, IBM developerworks etc.
	19/01: Still no response from Joel.
	Other web site that need updating
	- IBM virtual XML
	- Defuddle
	- Wikipedia
	- Need google trawl for others
	Also need to make spec and tutorials more accessible on the web, eg in pdf and/or html
	format.
	26/01: Still not heard from Joel about OGF web pages.
	PDF versions of the Specification and tutorials have been uploaded to gridforge.
	02/02: A DFDL web page is available at www.ogf.org/dfdl. We need to update the IBM
	virtual XML and MCSA Defuddle pages. Will ask Mike Beckerle to update his DFDL page.
	09/02: Wikipedia DFDL page is available.
	23/02: All sites except Defuddle have been updated.
	02/03: NCSA web pages have been updated. The DFDL WG home page needs updating
	and should provide links to spec and tutorials.
	09/03: Steve has updated the DFDL WG home page and is in contact with Edinburgh
	University to update an old DFDL presentation. Would like to have a separate DFDL tutorial
	page to link to the individual lessons.
	30/03: Bob will chase the update of the old Defuddle web pages. IBM investigating
	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
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	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.
136	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
	clarify behaviour, and so this action should be used to cover this work.
	04/05: In progress.
	18/05: In progress, at minimum some clarification to the spec is needed

Closed actions

No	Action
137	Map DFDL infoset to XDM (Steve)
	This is an old workitem

02/03: No progress
09/03: No update
30/03: No progress
13/04: Steve has written a draft of this and sent it to IBM's W3C rep for review. Steve will
send out for WG review before next call.
04/05: Document mailed to WG. Will be fully reviewed on next call.
18/05: Closed. Reviewed, Steve will update as required and publish on GridForge.

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 (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
•	•

	5/09: IBM still progressing, expect tests to be available within a few weeks
	2/09: IBM still progressing, expect tests to be available within a few weeks
	9/09:Test cases are being prepared.
	6/10: Some test cases should be available next week. Steve would like to be able to show ne test case information at OGF 30.
	3/10: Still progressing
	0/11: Legal issues cleared, IBM in process of collecting 100 example test cases, ideally
	nes that fit the 'extended conformance' of NCSA Daffodil
	7/11: Work is progressing on verifying the test cases. It should be possible to distribute to
	ne WG in 2 weeks.
2	4/11: About half the test cases have been completed and are being reviewed internally.
	1/12: Test cases should be available shortly
	8/12: The test cases are in internal IBM review. Probably need a bit of reorganising before
	ublication
	tephanie gave a brief overview of the format of the test cases.
	5/12: Ruth joined the call to provide the latest status. The test cases have been updated
	nd a draft read.me produced. Although not ready for public distribution Ruth will send them b Joe for feedback.
	2/12: Test cases were sent to Joe for initial testing which found some problems in the
	Daffodil parser
	2/01: All current tests use a default format whih Daffodil doesn't currently support. Joe
s	uggested that there should be test that defined the same function using different definition
	orms. Also suggested that default formats should be provided by the WG. This had always
	een the intention. Action 133 raised to track.
	9/01: There is currently no resource available in IBM to make more tests available. IBM to
	iscuss how/if it can make a 'minimal compliance test suite' available. 6/01: Action kicked off within IBM. There was a brief discussion abot naming and
	rganisation of test cases but no preferences were expressed
	2/02: IBM will not have the resources to develop a full test suite in the near future. Steve
	uggested that we produce a list of required test cases so that anyone could supply them.
	9/02: Steve had previously sent a list of areas to be tested. Please review.
	3/02: Please review Steve's list of areas to be tested
	2/03: Alan had reviewed Steve's list and we went through his comments. Agreed there is no
	eed for separate tests for the infoset or for dfdl: property lists, unions etc but comment will
	e added that these should be exercised during property testing.
	9/03: Alan updated the test document. Need more introduction and perhaps adopting the
	OF template.
	0/03. Ownership of test document passed to Steve. This action is merged with 112 and will over all aspects of compliance suite.
	3/04: IBM will not have time to create a compliance suite in the near future. Probably best to
	nake this action deferred for now.

Work items:

No	ltem		Owner	Target	Status
042	Mappin	g of the DFDL infoset to XDM	Steve	N/A	Not required for V1 specification
043	Track e	 Trata list for 1.0 of the spec: The ref property needs to state that circular paths are a schema definition error. Clarify what packed and BCD calendars mean. No need to use a separate VDP property. The only place where a decimal point can occur is for fractional seconds. This is detectable from the pattern at the boundary of 's' and 'S', ie 	Steve	N/A	

	sS - Property calendarPatternKind = 'explicit' must be used with binary calendar representations, as the defaults for 'implicit' use non-numeric characters. Schema defn error otherwise. - Property binaryCalendarRep should restate the rule from property calendarPattern. - Examples to be provided.				
3	It looks like the DFDL spec does not fully state the time zone symbol behaviour, as it quotes from http://icu-project.org/apiref/icu4c/class SimpleDateFormat.html instead of from http://userguide.icu-project.org/formatp arse/datetime. It should say:				
	z Time Zone: specific non-location (z, zz, or zzz) PDT zzzz Time Zone: specific				
	non-location Pacific Daylight Time Z Time Zone: RFC 822 (Z, ZZ, ZZZ) -0800 ZZZZ Time Zone: localized				
	GMT GMT-08:00 v Time Zone: generic non-location PT				
	vvvv Time Zone: generic non-location Pacific Time				
	V Time Zone: generic non-location PT VVVV Time Zone: generic location United				
	States (Los Angeles) Note that both Z and ZZZZ can be followed by 'U' which is a DFDL extension.				
4	Property precedence corrections: - 22.1.1 & 22.2.1. Binary representations can have delimited lengthKind . - 22.1.2 & 22.2.2. Complex elements				
5	can have endOfParent lengthKind. Spec talks about 'content region' but it should be more specific in terms of the grammar, and use 'SimpleContent region' or 'ComplexContent region', or both.				
6 State that dfdl:inputValueCalc and dfdl:outputValueCalc can either b DFDL expression or empty string.					
7	On parsing, state that nilLiteralCharacter test takes place on				

I		the untrimmed rep value.		
L				

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