

DFDL WG Call Minutes

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Meeting about Meetings\OGF

Project	DFDL 1.0
Meeting Date	11-Aug-15 (Tues)
Meeting Time	16:00 - 17:00

Created by Steve Hanson on 09-Mar-11

Last Modified by Steve Hanson on 12-Aug-15

OGF DFDL Working Group Call , 11 August 2015

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. ICU parsing of fractional seconds

It looks like ICU parsing behaviour for the 'S' symbol is not exactly as the DFDL 1.0 spec describes.

It accepts any number of digits when parsing whether lax or strict.

The SimpleDateFormat class says "Truncates at three significant digits when parsing."

(<http://www.icu-project.org/apiref/icu4c/classSimpleDateFormat.html>).

Also exceeding the range of a 32 bit integer corrupts the value (ICU ticket raised).

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 .

Attendees

Steve Hanson

Andy Edwards

Alex Wood

Mike Beckerle

Apologies

Minutes

1. Daffodil Open Source Project

Continuing to work on unparsing behaviour and improving performance .

2. ICU parsing of fractional seconds

The DFDL spec allows greater than millisecond precision but ICU does not .

This is intentional, as IBM had seen a requirement for microsecond precision .

Agreed that DFDL should continue to allow implementations to support precision greater than millisecond, but that any behaviour when the number of 'S' symbols exceeds the supported precision must match ICU behaviour, which should be clarified . New **action 284** raised.

3. DFDLSchemas on GitHub

Some DFDL schemas implement formats for which the specifications are not freely available .

This can preclude their publication in a DFDLSchemas repo on GitHub . Where possible, authors should consider creating a repo anyway , with a link to where the schemas may be obtained, in order to publicise their existence . For example, IBM has schemas for HIPAA which are only available in an IBM product .

IPR Statement

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

Meeting closed

17:00 UK

Next regular call

Tues 25th August 2015 @ 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: **285**

Actions raised at this meeting

No	Action
284	Clarify calendarPattern 'S' symbol behaviour to match ICU (Steve) 11/8: Steve to update DFDL spec section that describes S behaviour.

Current Actions :

No	Action
228	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 the tutorial structure. 29/4: Tutorials received. Mark has taken a quick read. Mark & Steve to review and report back.

	<p>6/5: Still with Mark and Steve</p> <p>20/5: Mark has reviewed. Will ask IBM information development to recommend a way to portray the existing and new lessons, preferably web-based. Find somewhere to host them. OGF? GitHub? developerWorks? NCSA?</p> <p>3/6: Steve has also reviewed.</p> <p>...</p> <p>17/6: No further progress on tutorials. Tim is looking into the creation of some DFDL how-to videos using the IBM Integration Studio.</p> <p>...</p> <p>31/3: No further progress</p> <p>14/4: Agreed that the need for better tutorials has become pressing for Daffodil users who aren't using IBM's tools and material. Discussed creating tutorials based on a tdml file with comments that is processed to produce html. Mike to investigate.</p> <p>28/4: Mike has sent an example tdml file which embeds instances of a new 'tutorial' element in various places. These elements contain html which can be extracted and formatted in a browser. Suggest future DFDL tutorials are created using this technology.</p> <p>12/5: Not discussed</p> <p>...</p> <p>11/8: No further progress</p>
250	<p>Standardise on a single tdml format for DFDL tests (All)</p> <p>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.</p> <p>...</p> <p>18/2: No further progress</p> <p>11/3: Mike and Steve discussing the best way to share and cooperate on tdml format.</p> <p>25/3: Discussed the creation of an OGF document that will own and define a standardised tdml format.</p> <p>11/4: Proposal is for the OGF document to define a tdml format without Tresys or IBM copyright statement.</p> <p>15/4: Draft document on Redmine</p> <p>...</p> <p>6/5: No further progress</p> <p>20/5: Mark has read through the document. Particularly concerned with how namespaces are handled in the infoaset.</p> <p>...</p> <p>17/6: No further progress</p> <p>25/6: Mike has added bit order capability as per action 233.</p> <p>...</p> <p>9/12: No further progress</p> <p>6/1/15: Mike to resurrect this as Tresys would like to run their tdml suite against both Daffodil and IBM DFDL.</p> <p>...</p> <p>10/2: No further progress</p> <p>24/2: Mike updating the Daffodil TDML test runner to handle unparser (ie, serializer) tests</p> <p>...</p> <p>14/4: No further progress</p> <p>28/4: Tresys have enhanced their tdml runner to allow unparser tests and round-trip tests (parser->unparser->parser) as well as the new tutorial tag (see action 228)</p> <p>12/5: Not discussed</p> <p>...</p> <p>11/8: No further progress</p>
279	<p>Improve defaulting description to explicitly cover local groups (Mike)</p> <p>28/4: Only talks about elements, should mention local sequence and choice.</p> <p>12/5: Not discussed</p> <p>23/6: Section 15.1.3 needs to say what happens when a choice branch does not contain any elements; such a choice branch is selected (but see action 280 below as minOccurs '0' might</p>

	change this). Section 9.4 also needs updating to say what happens when local groups are found within a complex type. 11/8: Steve did some tests with IBM DFDL. Just need some words as above. Action assigned to Mike.
280	Choice branch rule minOccurs <= 0 ? (All) 28/4: Is this still needed given how occursCountKind and discriminators now work ? 12/5: Not discussed 23/6: Steve sent an email where he attempted to find the justifications for the restriction (extra point of uncertainty, known-to-exist rules). Steve will do some more digging to see at what point this restriction was introduced, and look at XML scenarios. 11/8: Steve believes that the restriction is to be consistent with not allowing minOccurs =0 on the choice itself, as both allow the choice to be absent logically. Think about this more for next call. Also is the inputValueCalc restriction needed ?
281	Allow nil literal values other than ES for complex elements ? (Mike) 28/4: Formats seen that could use this, but does it introduce complexity that ES on its own avoids? 12/5: Not discussed 23/6: Mike to create a fully worked proposal to see whether this is a simple extension, or whether it drags in too many other properties. To consider variable length and fixed length cases. 11/8: No further progress.
282	Does XPath have operators for checking a value is in a range ? (Mike) 12/5: Investigate whether equivalent to DFDL4S 'in' operator exists. 23/6: Mike has found an XPath 'intersect' operator. Handles the enumeration case well, but not as convenient for ranges as DFDL4S's 'in' operator. 11/8: Looked back at the motivating example from DFDL4S. Agreed that DFDL functions to do the equivalent of 'in' and 'inrange' would be useful if nothing can be re-used from XPath. Steve to write up a proposal taking into account different data types.
283	Investigate incorporation of ICU fallback mappings into dfdl:encodingErrorPolicy (Steve) 23/6: IBM has requirements from customers to support fallback mappings. 11/8: No progress. Steve to look at prior proposal.

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 gridforge 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
200	Establish recommended practices for pushing changes to GitHub (Mike)

No	Item	Owner	Target	Status