

SCSC Data Safety Initiative – WG Meeting 50

14th January 2020, Webex/Teleconf

Minutes

Attendees

Mike Parsons (MP) – CGI, Paul Hampton (PH) – CGI, Paolo Giuliani (PG) – EDF Energy, Martin Atkins (MCA) – Mission Critical Applications, Divya Atkins (DA) – Mission Critical Applications, Mark Templeton (MT) – Qinetiq, Tim Rowe (TR) – Consultant.

Apologies

Alastair Faulkner (AF) – Abbeymeade, Fan Ye (FY) – ESC, John Bragg (JEB) – MBDA, Louise Harney (LH) – Leonardo, Andy Williams (AW) – New Techno, Dave Banham (DB) – Blackberry, Paul Ensor (PE) – Boeing, Paul McKernon (PMCK) - Dstl.

Agenda

- Introduction and Status
- Updated report on Data Safety Evolution Seminar
- New Issue of Guidance Document
- Tooling Status
- Data Safety at SSS'20
- Sales/Downloads Update
- Future Events
- Minutes and action status
- AOB, etc.
- Data Safety in the News
- Next Meeting

NOTE: All comments or opinions in these notes are attributed only to individual attendees of the meeting, not to their respective organisations.

*[Note that actions are presented in the form **N.Mx** where **N** is the meeting number, **M** a reference number for the action raised in that meeting and **x** is an optional letter that differentiates related actions arising from the same discussion point].*

The meeting slides are available at [1].

1. Introduction and Status

Since this was the **50th meeting of the DSIWG**, MP thanked all participants of the group for all the hard work since the group's inception. He explained that this group has been more productive than several of the other SCSC working groups!

2. Report on Data Safety Evolution Seminar

MP reported on the Data Safety Evolution Seminar that took place on the 14th November 2019, <https://scsc.uk/e651> and was considered very successful with several new (and enthusiastic) attendees. The feedback was very good (and higher than average for an event of this type):

Interest			4	14	4.8
Relevance			5	12	4.7
Presentations		2	12	4	4.1
Panel Session		2	7	4	4.2
Networking		2	6	9	4.4
Audio / Visual	1		8	9	4.4
Venue / Location			3	15	4.8
Refreshments / Lunch			5	13	4.7
Event Administration			2	16	4.9
Value			4	13	4.8

MP added that there seemed to be a lot of interest generated during the event and noted that many people stayed behind afterwards for networking opportunities. The venue was also noted as being a very good location although there were some issues with the length of the lunch break, the audio/video and room temperature.

3. New Issue of Guidance Document

PH showed the updated front cover page for version 3.2 of the guidance [2, 3]. There was discussion about the SSS'20 'sticker' in terms of colour and border style.

Action [PH] 50.1 Issue updated cover picture for review.

It was agreed that a paper copy would also be published via KDP/Amazon. It was agreed that a PDF ready version by 24th of January would be required for electronic review, and the reviewed version uploaded to KDP 1st February to enable hardcopy printing.

The guidance changes as per the slides and previous actions were discussed. All were done or in progress.

Action [MT] 50.2 Produce review copy by 24/01/20 and upload to KDP (with PH) by 01/02/20.

Action [MA] 50.3 Produce a war story on the Soyuz launch failure.

Links to DB's Ontology

It was noted that the ontology work is a full paper for SSS'20 and will have a reference in the guidance with an introductory paragraph.

A separate appendix on Machine Learning / Training data is now included in the guidance.

PH will add some wording on how the ODR relates to risk appetite.

Data Categories

The change from Data Types to Data Categories was discussed and clarified. It was noted that there are not two different groups, one is simply a subset of the other.

4. Tooling Status

DA and MA gave a report on tooling activities.

PG agreed that it would be useful to have a meeting and demo of the tool at EDF.

Action 50.4 [PG] Arrange meeting at EDF to demonstrate the tool.

DSIWG-TSG

A decision was made to start the DSIWG-TSG (Tooling Sub Group), with DA Chairing. It will meet by teleconference fortnightly. It will be started informally and then announced at SSS.

The following meeting attendees volunteered to join: PG, PH, MP, MT, MA, DA.

Paul McKernon (Dstl) may also be interested

Action 50.5 [DA] Start up the sub-group and initiate first teleconf.

5. Data Safety at SSS'20

MP said there are the following on Data Safety at SSS'20:

- Presented paper: Safety Critical Integrity Assurance in Large Datasets (Graham Sutherland and Ali Hessami);
- Poster: Formalising the Language of Risk (Dave Banham).
- Poster: A 'Z' specification of the concepts of Data Safety Assurance (Divya Atkins)

He said that he would try and arrange an informal group get-together during SSS'20.

6. Sales/Downloads Update

MP said there were 1685 downloads of the Data Safety Guidance Version 3.1 to date.

PH said there were 2 recent purchases of the Data Safety Guidance v3.1 hardcopy from Amazon.

7. Future Events

MP showed the up and coming events at SCSC:

- Safety-Critical Systems Symposium (SSS'20) 11-13 February 2020, <https://scsc.uk/e619>
- Seminar: Safe Use of Multi-Core and Manycore Processors 30th April 2020, <https://scsc.uk/e638>
- Seminar: New Safety Analysis Techniques 11th June 2020, <https://scsc.uk/e654>
- Tutorial: Combining Safety With Security, <https://scsc.uk/e666>
- Management and Oversight of Complex Systems, 3rd December 2020, <https://scsc.uk/e661>

8. Minutes and action status

See table at end.

9. AOB, etc.

None.

10. Data Safety in the News

Cambrian Line Final Report

<https://www.gov.uk/government/news/report-172019-loss-of-safety-critical-signalling-data-on-the-cambrian-coast-line>

Failure to alert EU over 75,000 criminal convictions

https://www.theguardian.com/uk-news/2020/jan/14/revealed-uk-concealed-failure-to-alert-eu-over-75000-criminal-convictions?CMP=Share_AndroidApp_Gmail

Reporting Air Accidents

<https://www.aviationtoday.com/2019/11/28/data-and-safety-lessons-from-tsbs-investigation-of-canadian-air-taxi-accidents/>

Loss of Soyuz

<https://www.theguardian.com/world/2017/dec/28/russian-satellite-lost-wrong-spaceport-meteor-m>

11. Next Meeting

It was agreed that the next meeting should be a face-to-face meeting in Bath in March 2020, possibly 10th or 17th. DA to arrange.]

12. Thanks

Thanks to all for taking part. Thanks to MP for taking minutes and chairing the meeting.

Summary of Open Actions

Rows have been greyed-out to indicate that the actions were closed during this meeting. Those entries will be deleted from future versions of the action log.

Ref	Owner	Description	Target Guidance Version
42.6	PH	Define the process to publish a document developed in Overleaf via Amazon	3.2
42.9	MP	Work out a matrix of data categories (previously 'types') and data properties (as per DB discussion)	N/A
43.4	MP	Write up a data focussed FMEA approach.	4.0
44.1	MT	Review last 12 months of DSIWG minutes and put any actions referring to v4.0 into Appendix O.	4.0
44.2	DB/LH	To develop the Wikipedia article to get it into a position where it can pass review and be published.	N/A
46.1	MP	Review the application of DSALs to higher level forms of aggregation	N/A
46.3	MP	Make it more obvious why only a handful of data categories have been selected for the guidance when there are over 30 in the appendices.	3.2
49.1	PH	Change the spine version to 3.2 and the front cover sticker to green from red.	3.2
49.2	MT	Add MCA's identifiers to the methods and techniques table.	3.2
49.3	MCA	Produce a war story by 15 th December that relates to data for the 737 MAX accidents for MT to incorporate in Overleaf.	3.2
49.4	DB	Produce a one-page description of the role of the Ontology work and add a reference to the SSS'20 paper for incorporation in a future work appendix.	3.2
49.5	MT	Add a teaser appendix to the Data Safety Guidance to include future work not incorporated in version 3.2.	3.2
49.6	MT	Review Overleaf briefing material and aim to hold a briefing Webex (between 16 th and 20 th December 2019) in the use of Overleaf in the production of the guidance.	N/A
49.7	PH, MP, DA MCA, MT, TR, DB, PM	Review Appendix O and volunteer for items to be cleared off by 15 th December 2019. Offers to be provided by 3rd December 2019.	N/A
49.8	MP	Produce section on Machine Learning and its relationship to data safety.	3.2
49.9	PH	Suggest some wording on how the ODR relates to risk appetite.	3.2
49.10	MT	Update the guidance to make a change from Data Types to Data Categories along with an explanation.	3.2
49.11	DA/MP	Prepare an introductory email to send out to the DSIWG group inviting people to join the tooling subgroup.	N/A
50.1	PH	Issue updated cover picture for review	3.2
50.2	MT/PH	Produce review copy by 24/01/20 and upload to KDP (with PH) by 01/02/20.	3.2
50.3	MA	Produce a war story on the Soyuz launch failure.	3.2
50.4	PG	Arrange meeting at EDF to demonstrate the tool	
50.5	DA	Start up the sub-group and initiate first teleconf	

References

Ref	Title	Location
[1]	Meeting slides	https://scsc.uk/file/gd/50th_DSIWG_Slides-629.pptx
[2]	Working draft cover for v3.2	https://scsc.uk/file/gd/cover_v3.2_1000w-632.png
[3]	Working draft text for v3.2	https://scsc.uk/file/gd/DSIWG_3_2_working_copy(2)-631.pdf