

## SCSC Data Safety Initiative – WG Meeting 52

6<sup>th</sup> May 2020, Webex/Teleconf

### Minutes

#### Attendees

Mike Parsons (MP) – CGI, Dave Banham (DB) – Blackberry, Tim Rowe (TR) – GTR Safety Management Ltd, Divya Atkins (DA) – Mission Critical Applications, Martin Atkins (MA) – Mission Critical Applications, Paul McKernan (PMcK) – DSTL, Andy Williams (AW) – Newtechno, Jim Mateer (JM) – SQEP, Louise Harney (LH) – Leonardo, Paul Mayo (PM) - SQEP

#### Apologies

Paul Hampton (PH) – CGI, Fan Ye (FY) – ESC, Ali Hessami (AH) – Vega, Paolo Giuliani (PG) – EDF, Ashley Price (AP) – Raytheon, David Smith (DS) – FNC, Paul Dart (PD) – NCC, Dave Smith (DS) – FNC, John Bragg (JB) – MBDA, Mark Templeton (MT) - Qinetiq

#### Agenda

- Covid-19 and Data
- LRF Interest
- SSS'21
- Update on Guidance Document v3.2 (downloads/sales)
- *Talk on Healthcare/Robotics from Chris Harper, Bristol Robotics Group (TBC)*
- Aims for 2020/21
- DSIWG-TSG
- AOB, etc.
- Data Safety in the News

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. Coronavirus / COVID-19**

MP noted the difficulties of using reported data and comparisons between different techniques, countries, etc. There was a discussion about the mis-information being produced and distorted figures being given (e.g. from China, Russia), but also on claims for testing “100,000 per day” tests, etc.

MP noted that we are relying on very poor data to make big decisions, e.g. on when lockdown is to be lifted. There was a point made that WHO should be able to require uniform reporting, standardisation and also data sharing.

The misinformation on social media was highlighted.

The need for the general public to understand and draw conclusions from data was discussed. Suddenly we are all expected to understand complex data. There was a general point that decisions have to be made quickly on the data and that this is not something that we consider in the data guidance. Perhaps we should have one or more tailorings of the guidance for such situations?

### **Contact Tracing App**

MP highlighted the issue of false positives / false negatives in the proposed contact tracing app, and the impact this could have.

It was thought the NHS app being trialled currently stores data centrally so there are opportunities for data loss, corruption, etc. as well as security issues, see ref [4]. There could also be malicious / mischievous uses of the app, for instance to require isolation of someone.

It was noted that there are both simple and complex models in play, some of which modelled at the level of social interactions<sup>1</sup>.

## **2. Lloyds Register Foundation Interest**

MP said that the LRF was interested in funding Data Safety 'Precursor' work, and that this might include:

- Stakeholder education;
- Building contacts and networks (inc. site visits);
- Educational materials;
- Case studies;
- Meet and start to influence decision makers (regulators, etc.);
- Output is set of organisations / collaborators who want to take it further

Several members of group said they had had experience of creating training materials. Some also have good contacts.

MP highlighted the difficulty of getting the message across<sup>2</sup>.

**Action 52.1 (All) – Contact MP or PH if you would like to contribute to the LRF proposal or work on activities**

**Action 52.2 (All) – Contact MP or MT with any news accident stories.**

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<sup>1</sup> Post meeting note from PMcK: There appears to be a marked reluctance to sign up to this (~40% on Isle of Wight)...There is a serious engagement strategy required here because to work effectively, this app will have to track our behaviour in some detail. This data would be very valuable/dangerous in the wrong hands...we will have a ... situation where the rate of change/need exceeds our ability to underpin/regulate and assure. Could/should the COVID app be treated like medical records (or even more securely ???)

<sup>2</sup> Post meeting note from PMcK: Agreed. Difficult to find a project that: a) recognises that it has a data safety need; b) can / is prepared to share the data. As the MOD moves to the new version of Def Stan 00-970 Part 13 Issue 13, then the need for the data safety argument might become more apparent.

### **3. SSS'21**

MP mentioned that the SCSC Safety Critical Systems Symposium SSS'21 [2] is due to take place in February 2021 and abstracts for papers are now requested. There will also be a) Posters, b) 3 minute 'pitches' and c) an Early Career session, all of which offer a chance to present something on data safety.

### **4. Sales/Downloads Update**

MP said there were 210 downloads of the PDF version of the Data Safety Guidance v3.2 [5] to date. There was 1 purchase of the Data Safety Guidance v3.2 hard copy since last meeting.

### **5. Ontology**

DB described the new SCSC Ontology Working Group activities.

Work has already been undertaken on the ontology for the Data Safety Guidance, which needs review and incorporation into the document.

Work is progressing on an ontology for general risk management of which data safety is a particular aspect.

**Action 52.3 (MP) – Contact RO of Rolls-Royce to seek further input on some of the new areas for data safety**

### **6. Tooling Sub-Group**

DA presented an update on tooling and said that the TSG had kicked off but nothing has happened as yet. This will re-start by the end of May 2020.

**Action 52.4 (All) – If interested in taking part in some of the TSG activities, please contact DA directly.**

### **7. Aims for 2020/2021**

The status of the possible updates for the next issue of the guidance document was briefly discussed.

**Action 52.5 (MP) - Ask MT / PH to see which of the previously identified updates can be done for DSG3.3**

### **8. Future Events**

MP highlighted the upcoming SCSC events:

**Seminar: POSTPONED: New Safety Analysis Techniques**

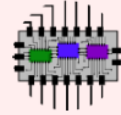
TBD - London, UK

*This seminar is relevant to safety engineers and safety consultants who have to perform analysis of systems. It will also be useful for safety auditors and assessors who may have to interpret or ... »*

**Seminar: Safe Use of Multi-Core and Manycore Processors**

September 24, 2020 - London, UK

*This seminar is relevant to all those involved with Multi-core and Manycore processing systems, including software and hardware developers, certification bodies and sector regulators. »*



**Seminar: Management and Oversight of Complex Systems**

December 3, 2020 - Reading, UK

*This 1-day seminar will be useful for all those involved in running a complex operation that involves safety. It is aimed at Managers, Operators, Regulators and Assurance staff. If you operate a ... »*

**Symposium: Safety-Critical Systems Symposium (SSS'21)**

February 9 - 11, 2021 - Bristol, UK

*The SCSC Safety Critical Systems Symposium 2021 (SSS'21) will be held from 9-11th February 2021 in Bristol, UK.*

*A flyer for the event is available.*

*The call for abstracts is available. ... »*

## 9. Minutes and action status

See table at end [Not discussed - some amendments made post-meeting.]

## 10. Data Safety in the News

The following were briefly discussed:

1. [https://assets.publishing.service.gov.uk/media/5e9d5b4cd3bf7f0316b6a63a/AAIB\\_Special\\_Bulletin\\_S1-2020\\_G-POWN.pdf](https://assets.publishing.service.gov.uk/media/5e9d5b4cd3bf7f0316b6a63a/AAIB_Special_Bulletin_S1-2020_G-POWN.pdf)
2. [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/876845/2020-SD1-MAIBSafetyDigest.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/876845/2020-SD1-MAIBSafetyDigest.pdf)

## 11. Next Meeting

A WebEx/Teleconf meeting in July is suggested. MP to arrange. [Now arranged for 1<sup>st</sup> July 14:00 - 16:30]

## 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	4.0
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
49.6	MT	Review Overleaf briefing material and aim to hold a briefing Webex (between 16 <sup>th</sup> and 20 <sup>th</sup> December 2019) in the use of Overleaf in the production of the guidance.	N/A
49.11	DA/MP	Prepare an introductory email to send out to the DSIWG group inviting people to join the tooling subgroup.	N/A
50.4	PG	Arrange meeting at EDF to demonstrate the tool	N/A
50.5	DA	Start up the sub-group and initiate first teleconf	N/A
52.1	All	Contact MP or PH if you would like to contribute to the LRF proposal or work on activities	N/A
52.2	All	Contact MP or MT with any news accident stories	N/A
52.3	MP	Contact RO of Rolls-Royce to seek further input on some of the new areas for data safety	N/A
52.4	All	If interested in taking part in some of the TSG activities, please contact DA directly	N/A
52.5	MP	Ask MT / PH to see which of the previously identified updates can be done for DSG3.3	3.3

### 13. References

Ref	Title	Location
[1]	Meeting slides	<a href="https://scsc.uk/file/gd/52nd_DSIWG_Slides-707.pptx">https://scsc.uk/file/gd/52nd_DSIWG_Slides-707.pptx</a>
[2]	SSS'21	<a href="https://scsc.uk/e683">https://scsc.uk/e683</a>
[3]	Ontology WG	<a href="https://scsc.uk/go">https://scsc.uk/go</a>
[4]	Contact Tracing App	<a href="https://www.theverge.com/2020/5/5/21248288/uk-covid-19-contact-tracing-app-bluetooth-restrictions-apple-google">https://www.theverge.com/2020/5/5/21248288/uk-covid-19-contact-tracing-app-bluetooth-restrictions-apple-google</a>
[5]	V3.2 of Guidance Document	<a href="https://scsc.uk/scsc-127E">https://scsc.uk/scsc-127E</a>