

SCSC Data Safety Initiative – WG Meeting 59

23rd February 2021, Zoom

Minutes

Attendees

Mike Parsons (MP) – AAIP, Martin Atkins (MA) – MCA, Paul McKernan (PMK) - DSTL, Paul Hampton (PH) – CGI, Michael Green (MG) – Ecomergy, Graham Sutherland (GS) – Consultant, Jim Mateer (JM) – SQEP, Tim Rowe (TR) – GTR Safety Management Ltd, Dale Callicott (DC) – BAE, Paul Mayo (PM) – SQEP.

Apologies

Dave Banham (DB) – Blackberry, Andy Williams (AW) – NewTechNo, Mark Nicholson (MN) – University of York.

Agenda

1. Welcome and Update
2. SSS'21 Update
3. Version 3.3 of DSG Issued
4. News Articles
5. Covid-19 and Data
6. SCSC Events
7. AOB, Actions, etc.

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: https://scsc.uk/file/gd/59th_DSIWG_Slides_v1-1037.pptx

1. Welcome and Update

MP welcomed the group.

2. SSS'21 Update

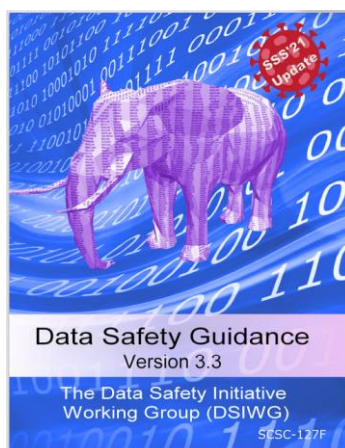
MP said that SSS'21 had been considered a success with 194 delegates and peak attendance at a session of 106 people. He mentioned the DSIWG update talk, <https://scsc.uk/re683.13:1>, and Nick Hales' pre-recorded talk on data, communications and Covid-19, <https://scsc.uk/re683.25:1>.

3. Version 3.3 of DSG Issued

PH and MP explained the main changes in the Data Safety Guidance v3.3, issued at SSS'21, <https://scsc.uk/r127F:1?t=1>

- Collection of accidents enhanced:
 - New subsection H.2: Covid-19 test results silently deleted by Excel: Importing Covid-19 test results into an Excel file truncated the data after 65536 records.
 - Updated subsection H.3 as investigations into the 737 MAX 8 accidents have progressed.
 - New subsection H.17: Boeing 737-33A at Chambéry Airport, France: Misuse of Electronic Flight Bag results in tail strike.
 - New subsection H.25: Annabella container ship — Baltic Sea: Software developed loading plan using incorrect container specifications.
 - New subsection H.32: San Bernardino derailment and pipeline rupture: Criticality of train weight not recognised, resulting in multiple fatalities.
- New section K on Dark Data and Dark Data Changes throughout
- New section L on Covid-19
- Improved References section, providing ISBNs and weblinks to documents, where available.
- Minor updates due to referenced Standards documents being revised.
- Many small improvements to the typesetting, including increasing the visibility and accuracy of hyperlinks within the electronic versions of the document
- Mapping tables between data issues and loss of data properties
- ODR improvements
- Addressed Thor Myklebust's comments
- Addition of Misinformation to definition of Falsification
- Many editorial fixes

MP said that he liked the 'sticker' at the top-right of the new cover:



4. News Articles

The following articles were discussed:

1. Important Police Records lost: <https://www.bbc.co.uk/news/uk-55672194> It was noted that organisations dealing with sensitive data need to treat it as a 'fragile' asset that can be lost or destroyed very easily and it needs to be protected and backed up. Also that use of cloud data storage can make things worse as there is no real idea where the data is.

2. Theranos Blood Test Database records purposely destroyed: https://www.theregister.com/2021/01/12/theranos_database_loss - It was noted that this is the subject of a documentary and will be a feature film.
3. Water Treatment Plant breached: <https://arstechnica.com/information-technology/2021/02/breached-water-plant-employees-used-the-same-teamviewer-password-and-no-firewall/>
4. The Ten Worst Covid-19 Data Failures: <https://www.spectator.co.uk/article/The-ten-worst-Covid-data-failures>
5. BMI Error Leads to Vaccination Queue Jumping: <https://www.theguardian.com/uk-news/2021/feb/18/6cm-tall-man-offered-covid-vaccine-after-nhs-blunder-liam-thorp>

5. Covid-19 and Data

There was a long discussion about data and the Covid-19 pandemic. It was thought that the real picture of spread, methods of infection, etc. will take some time emerge. There was concern that societal risks were not being properly factored in and that there was no (obvious) model of societal harms being used. There was a suggestion that the Covid-19 approach might become the norm, and that distancing and masks might be required from now on to combat things like ‘flu. There was discussion of aerosol models, etc. There was general agreement that better data is needed. There was a mention of an IMechE talk (possibly this one: <https://www.imeche.org/news/news-article/feature-5-ways-the-covid-19-pandemic-has-changed-engineering-forever>).

There was a general feeling that current Covid-19 data should be treated as suspect, unless proved otherwise.

MP suggested there might be value in trying to link Safety Culture and “Covid-19 Culture”, in that what you are trying to do is create/modify behaviours in people so that benefits are realised.

PMK noted this report from the Alan Turing Institute as relevant to the debate:

https://www.turing.ac.uk/sites/default/files/2020-10/epistemic-security-report_final.pdf

6. SCSC Events

All slides and presentations are now available from SSS’21: <https://scsc.uk/e683>.

Future events are shown below:

SSS'21 Follow-Up: Safety Critical Systems Symposium Q&A

February 24, 2021 - 14:00-16:00 via Zoom

This is a follow-up Zoom session from SSS'21 <https://scsc.uk/e683> where questions about papers and presentations (either online or pre-recorded), which were not answered during SSS'21 ... »

Seminar: Safety Culture Developments

April 13, 2021 - Zoom

This online seminar, held from 14:00-16:30 UK time, will look at new developments in Safety Culture and will feature results from the SCSC SCWG Online Survey.

Speakers include:

Patrick and ... »

Anniversary: Club 30th Birthday

May 1, 2021

The club marks its 30th anniversary of formation in 1991 on May 1st!

»

Seminar: Can we quantify risk?

September 23, 2021 - London, UK and blended online

In many areas of safety attempts are made to quantify risk. Some of these are apparently more successful than others, but some areas are notoriously difficult to quantify, especially ... »

Symposium: Safety-Critical Systems Symposium (SSS'22)

February 8 - 10, 2022 - Bristol, UK and blended online

The Safety-Critical Systems Symposium 2022 (SSS'22) will be held 8-10th February 2022 in person in Bristol, UK and as an online (blended) event.

It is our 30th Symposium and as such will ... »

7. AOB, Actions, etc.

See table at end.

8. Next Meeting

Next meeting by Zoom early April 2021. MP to arrange.

It may be possible to hold a blended (in-person / online) meeting at the end of June.

9. Thanks

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

Summary of Open Actions

Actions 55.2, 56.1, 56.5, 56.6, 57.1 were closed.

Ref	Owner	Description	Target Guidance Version
42.6	PH	Define the process to publish a document developed in Overleaf via Amazon	3.4
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.	3.4
44.2	MP	To discuss with AK on how to get the Wikipedia article 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 before end of March 2021 in the use of Overleaf in the production of the guidance.	N/A
53.1	MP	To talk to Kevin King about what we need to do in the guidance for digital twins.	3.4
55.1	MA	Create additional 'war story' for the Excel data loss for version 3.3 of the guidance. Now re-assigned to MA.	3.4
56.2	DA	Consider impact of Dark Data on the Data Safety Tool	N/A