THE SAFETY-CRITICAL SYSTEMS CLUB

Use of Service History and Field Data in Support of Safety Justifications

April 14th 2016

This seminar explores the issues of using field service evidence to support safety justifications. Use of such data is now prevalent in the safety industry, but guidance is limited and is often presented in vague terms.

The seminar will be relevant to those who have to produce safety cases or safety assessments, and also to those who have to review or approve them.

Details of this and other events at:
www.scsc.org.uk/events

How can we use service history data safely?

Cumberland Hotel, Marble Arch, London

This seminar examines the safety issues arising from the use of field and operational data (e.g. product service history) to support safety justifications such as safety cases.

Many safety guidance documents and safety standards acknowledge the use of service history as a useful justification element, but fundamental questions and issues concerning the data are rarely addressed:

- Which types of service data should be collected?
- How should it be selected, analysed and presented?
- Which types of data support particular assurance levels?
- Can service data be used to support safety arguments for different systems or different usage scenarios? How close does one system or product have to be to the other?
- What types of data support which parts of a safety argument?
- How much confidence can we have in the data?
- How can missing or incomplete data be handled?
- How can contradictory data be managed?

These and related issues will be discussed at this seminar.

Cost and registration

To Club members the cost is £195, including lunch and refreshments (no VAT). Non-members pay an extra £95 for Club membership (£15.83 VAT). Joining instructions and the programme will be sent to registered delegates about two weeks before the event. Delegates must book their own accommodation (if required).

Safety-Critical Systems Club: I would like to attend the seminar on April 14th 2016

Name ....Organisation ....

Address ....

Telephone... Email ....Vegetarian: Yes/No

❑ I am not an SCSC member, so need to join and pay £290   ❑ I qualify for the SCSC member rate of £195

To pay by cheque, please enclose a cheque for £195 or £290, payable to: Newcastle University (CSR)

To pay by credit card, please complete the following: ❑ MasterCard ❑ Visa ❑ American Express

Name on card .... Card
No ....

Amount to be charged...................................... Expiry date .... Security No ....

Cardholder's Address ....

Please return this registration slip with your payment to:
Joan Atkinson, Centre for Software Reliability, Claremont Tower, Newcastle University, Newcastle upon Tyne, NE1 7RU.
Phone: 0191 221 2222   Fax: 0191 222 7995   Email: joan.atkinson@newcastle.ac.uk

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Programme

09:30   **Registration and coffee**

10:00   **Introduction**

10:05   **Louise Harney**   *Collaborative analysis of field data*
        Raytheon UK

10:50   **Celine Pasty**   *Focus on Iris: How data is used for the certification*
        Inmarsat   *and the operation phases of a satellite-based*
                                   communication system for Europe

11.35   **Peter Niemann**   *Field Data in the EGNOS Safety Case*
        CGI UK

12:20   **Lunch**

13:20   **SCSC update**

13:25   **Elizabeth Lennon**   *Field Service Evidence: Practical examples and*
        Mark Hadley   *refinement in its use to support qualification*
        Mike Standish   *arguments*
        DSTL

14:10   **Emily Martin**   *How do we create company-wide safety intelligence*
        NATS   *from data and analysis?*

14:55   **Tea**

15:20   **Rick Vinter**   *Developing safety evidence profiles for software of*
        CGI UK   *unknown pedigree*

16:05   **Panel Discussion**   *Field data – is it the answer?* An open discussion
        Peter Bishop, Adelard   between the presenters and the delegates covering
                                   the issues raised during the day, guided by Peter
                                   Bishop.

16:45   **Close and opportunities for networking**