

File 20120406.0345: Weekly activity report 0235:

weekly activity report 235 (loughry)

Joe Loughry

Sent: 06 April 2012 03:45

To: Joe Loughry

Weekly activity report no. 20120405.1944 (GMT-7) sequence no. 0235, week -2 TT

Progress on CS-1 and -2 data analysis: I am working toward getting all codes assigned to CS-1 (and common) data by the agreed estimate date. The PDF file I sent to Dr Flchais last week was not organised; it contains different parts of the argument all mixed up. I know I need to send my supervisors a properly arranged re-drafting next week; they asked for the file in progress, so I gave them that, but I really need to go over the whole thing and give them a clean version of the argument. The structure of the dissertation is presently as follows: after an introduction to cross domain systems and some history, the data of case study 1 (how and why the DIACAP certification of R'' succeeded) using grounded theory analysis and case study 2 (how and why the Common Criteria evaluation of R' failed) using the same analysis method, relating observed events in both projects to some applicable recommendations found in the literature of software engineering (software development, high assurance [space systems and information security], and safety critical systems), chemical engineering (for risk assessment and process plant design and operation), and organisational behaviour. The grounded theory is followed by a brief theoretical section showing how accreditor behaviour is predicted by a model. Finally, a proposed solution to specific slowdowns observed in the first case study (not really applicable to the second case study because the R' evaluation did not proceed far enough) is described, using features available at mandated support levels of the Security Content Automation Protocol (SCAP) regulations for cross domain systems to be certified under DIACAP after R''. The continuous thread running through the argument is that certain activities must happen and run to completion if this type of project is to succeed, whereas certain other events, if not prevented or stopped quickly after they begin, preclude successful completion; in summary, experience from other fields can be applied to this one with improved results.

Status: coding in ATLAS.ti and writing the argument described above. I'll send a complete draft dissertation to Dr Flchais and Dr Martin for 15th April.

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End of WAR 0235.

## References