

Security Design of a Computer-Based Personnel Safety System Logbook

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In the last year Jefferson Lab's Personal Safety System (PSS) Logbook has been converted from a paper log to an electronic logbook. The motivation for this upgrade was to take advantage of the inherent benefits of electronic media (indexing, searching, automated information capture and parsing) as well as to make use of features of the lab's existing electronic logbook infrastructure. This conversion posed many design challenges however, especially in balancing increased security requirements with the design of an easy-to-use interface for the Safety System Operator (SSO). The paper will explore how the security requirements for the PSS electronic logbook were addressed with both new and existing code. It will also explore how key features were implemented with a focus on meeting security requirements in such a way as to still develop an application that was functional and easily operated by the SSO.

Summary

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