

Information Security Exercise

Hans Georg Schaathun
Høgskolen i Ålesund

Week 6 Autumn 2011

Task Based on your work last week, complete the risk analysis of your own laptop system using the qualitative steps of the FAIR framework¹, by adding the assessment of Probable Loss Magnitude.

Objective Your goal is to become familiar with a structured and systematic approach to risk analysis, and be able to use it effectively.

Submission

1. The submission should be in the form of a single PDF document.
2. Name and email address must display clearly on the first page.
3. *Deadline* Monday 3 October 2011 by 6am in Fronter.

Contents A typical report should contain (including material completed last week)

Introduction (very brief) defining the problem

Threats and Threat Event Frequency Enumerate relevant threats and try to estimate a threat event frequency quantitatively. Note that the quantisation classes in FAIR may not be suitable for a small scale system like yours.

Vulnerability Identify the vulnerabilities in your systems, and assess them relative to the threats.

Loss Event Frequency Based on the analysis in the previous two sections, enumerate plausible loss events and estimate their frequency.

Probable Loss Magnitude For each of the loss events identified, identify the different primary and secondary loss factors and estimate the probable magnitude (LEF).

Conclusion Based on the analysis you should reach an assessment of how high the risk is, and whether it is acceptable or not.

Good luck

¹http://riskmanagementinsight.com/media/documents/FAIR_Introduction.pdf