L Lin, B Nuseibeh, D Ince and Michael Jackson; Using Abuse Frames to Bound the Scope of Security Problems; Poster paper, Proceedings of 12th International Requirements Engineering Conference (RE'04), September 2004, Kyoto, Japan.

Abstract

Security problems arise from the concern for protecting assets from security threats. In a systems development process, the security protection of a system is specified by security requirements, identified from the analysis of the threats to the system. However, as it is often not possible to obtain a full system description until late in the RE process, a security problem often has to be described in the context of a bounded scope, that is, one containing only the domains relevant to some part of the functionality of the full system. By binding the scope of a security problem, it can be described more explicitly and precisely, thereby facilitating the identification and analysis of threats, which in turn drive the elicitation and elaboration of security requirements. In this poster, we elaborate on an approach we developed based on abuse frames and suggest how it can provide a means for structuring and bounding the scope security problems.