

Security Evaluation of ESAM Software Architecture Using ATAM

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Abstract

With the over whelming advancements in the field of electronic media new security concerns have been raised which cannot be dealt easily. Keeping in view this aspect we highlighted in this paper security evaluation of an ongoing e-society project ESAM using Architectural Tradeoff Analysis Method (ATAM). ESAM is a web based system intended to provide e-services to the Swedish community residents. ATAM is primarily used for architectural evaluation, aligned with the quality goals (performance, availability, modifiability) of an organization. We have presented the research analysis for characterization, stimuli, and architectural decisions to evaluate software architecture with respect to security measures using ATAM. This security characterization will serve as a tool to evaluate security aspects of a software architecture using ATAM. We believe that ATAM capability of evaluating software security will provide potential benefits to recourse constraint developing countries.