

A common criteria based security requirements engineering process for the development of secure information systems.

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A common criteria based security requirements engineering process for the development of secure information systems

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### Abstract

In order to develop security critical Information Systems, specifying security quality requirements is vitally important, although it is a very difficult task. Fortunately, there are several security standards, like the Common Criteria (ISO/IEC 15408), which help us handle security requirements. This article will present a Common Criteria centred and reuse-based process that deals with security requirements at the early stages of software development in a systematic and intuitive way, by providing a security resources repository as well as integrating the Common Criteria into the software lifecycle, so that it unifies the concepts of requirements engineering and security engineering.



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## Keywords

Common Criteria; **ISO/IEC 15408**; **ISO/IEC 17799**; Security requirement; Security requirements engineering

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