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This document is a product of the following subcommittees: SC 27--{#d29e1410}A -- Generation of encryption and privacy technologies;{#d29e1413}B -- Secure coding and verification;{#d29e1416}C -- Cryptography and security technologies. When a term that is not defined herein is used, it means the same as in ISO/IEC 8826-1:2010(E), Information technology -- Security techniques -- Privacy-preserving protocols. 1. Introduction {#Sec1} ================ The interest in secure coding has grown in the last decades and currently, there is a wide acceptance of secure coding within information technology (IT). Secure coding is defined as the process of modeling and validation of the input/output function of an algorithm, its algorithm and its (internal) implementation, usually with a view towards ensuring the privacy of data and protecting the security of an information system. The interest in secure coding is due to the fact that it is easier to hide information by encoding data in a way that the information remains hidden even if it is decoded. Secure coding improves the integrity, privacy and confidentiality of the data and algorithms. Some security issues in the domain of secure coding and cryptography have been identified. An important one is the difficulty of formal verification, which is not acceptable from a security point of view (Wang et al. [@CR24]). Secure coding and cryptography are naturally related with each other and the work on secure coding methods can lead to algorithms in the field of cryptography. In fact, several projects have been initiated to secure cryptography. One of them is the *Cisco Identity Protection Suite* (CIS) (Bandyopadhyay and Choudhury [@CR3]). Many existing solutions are focused on security and privacy. Some of them are however only based on cryptography while others are based on secure coding, which also ensures privacy. Solutions based on secure coding are well accepted and have many security mechanisms implemented on the market. Many of the defined security mechanisms are based on the concept of "privacy by design". In this case 8215747faf

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