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DIGITAL SIGNATURES: TECHNOLOGY, MANAGEMENT AND APPLICATIONS

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Abstract

The explosive growth of e-commerce transactions over the Internet; the widespread of e-business and e-government have increased the need to support dutiful transaction. Digital signatures are codes generated by an asymmetric or public-key cryptosystem. They are antithetical to hand-written signatures but still preserve their functions. Many nations have passed legislation on digital signatures, which give them equal legal standing with hand-written signatures. However, an infrastructure is needed to manage applications of digital signatures in many-to-many relationships environment such as the Internet. This paper discusses concepts, technologies and management of digital signatures. In addition, some applications of digital signatures are also highlighted.

Keywords : digital signature; public-key; PKI; digital certificate

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