

Foreword

Electronic identities (eIDs) are of vital importance to citizens, governments, and businesses. eID is a core enabler of personal, business, and government processes. The use of eIDs enables a more efficient access to public service and creates trust over the Internet for transaction services.

“Electronic Identity” is a means for people to prove electronically that they are who they say they are and thus gain access to services.¹ The deployment of e-identity will enable governments to offer better government services and reduce administrative burdens. Businesses and consumers use eIDs to enhance business productivity and improve commercial services, such as online bank transactions, signing contracts and procurement, among others.

E-identity is considered as an enabler of the digital economy. The European Union has recognized its importance in invigorating the economy. In its Europe 2020 Strategy, the European Commission drew attention to “the fragmentation that currently blocks the flow of online content and access for consumers and companies”² within the envisaged digital single market, and emphasized the need to overcome it. The ultimate aim is to facilitate e-commerce. However, there is still no legal framework for a pan-European system for electronic authentication. The EU aims to overcome the patchwork of different laws, rules, standards, and practices, and to change the legal framework to cross-border transactions. However, it faces national opposition in many member states.

This book is written from a legal and technical perspective.

The legal aspects of electronic identity written by Norberto Andrade examine the core legal and regulatory issues regarding electronic identity (eID) in the European Union. It looks at the main and common objective behind the eID regulatory initiatives and projects developed in the EU: the creation of a pan-European eID legal framework. It elaborates on the obstacles that are hindering the establishment of such scheme and proposes a conceptual framework of principles that could form the basis of a future EU legal framework for the protection and management of digital identities.

¹ http://ec.europa.eu/information_society/activities/ict_psp/documents/eid_introduction.pdf

² Commission, “Europe 2020: A Strategy for Smart, Sustainable and Inclusive Growth,” 19.

Dr. Norberto Nuno Gomes de Andrade, formerly scientific officer at the Information Society Unit of the Institute for Prospective Technological Studies (IPTS), Joint Research Centre (JRC)—European Commission, provides a compelling insight and analysis that are necessary for a broad understanding of the complexities that lurk in the eID regulatory initiatives. This book is stimulating and informative and Dr. Andrade has ensured that all relevant matters have been covered.

Lisha Chen-Wilson, David Argles, Michele Schiano di Zenise, and Gary Wills discuss the user-centric eCertificate system aimed at supporting the eID system. Although the eCertificate and eID are quite similar in concept, their structures and execution environments are different. According to the authors, an eCert file is a collection of selectable support files, individually signed with references embedded in the main content, before it is signed and encrypted with the access control metadata. On the other hand, the ideal eID file will be a collection of selectable text information with an ID image gathered into a single signed file and encrypted together with the access control metadata. The existing eCert protocol that was initially designed for managing eCertificates in a web environment is not able to manage eID in a mobile environment straightaway.

The authors developed a new eCertificate model which they have adjusted to adapt the new eID file structure, so that it can be recognized by the verification process. The eCertificates can be securely distributed and verified independently from the issuing body and satisfy ownership rights, without requiring storage in the verification system. The innovative model thus creates a newly designed centralized verification service for such digitally signed and access controlled distributed eCertificates.

Electronic Identity is a “must read” book which would be useful for researchers, lawyers, policy makers, technologists, and anyone serious about understanding the challenges of a pan-European eID and how it impacts life online and offline.

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