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**MACHINE READABLE CARDS - HEALTHCARE
APPLICATIONS - LOGICAL DATA
STRUCTURES AND CONCEPTS FOR
DIFFERENT CARD TECHNOLOGIES FOR USE
BY PATIENTS IN HEALTH APPLICATIONS**

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Machine readable cards - Healthcare applications - Logical data structures and concepts for different card technologies for use by patients in health applications

This CEN Report was approved by CEN on 25 November 2000. It has been drawn up by the Technical Committee CEN/TC 224.

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Foreword

This document has been prepared by CEN /TC 224, "Machine readable cards, related device interfaces and operations".

This CEN Report is published to provide availability of the work undertaken by CEN/TC 224 during the years 1992-1997 which was aiming to produce a European standard entitled "Machine readable cards – Healthcare applications – Logical data structures and concepts for different card technologies for use by patients in health applications". CEN/TC 224 has decided to close its own work towards completing this standards work being convinced that the work effort should be concentrated and will be better continued in ISO/TC 251 "Health informatics".

The scope of the work presented herein was intended to provide solutions for different types of storage technologies although the focus of interest in Europe has been the possibilities offered by Integrated Circuit Cards. This CEN Report describes an important approach towards providing a solution where, with certain constraints, the same structure of information objects could be provided for different technologies facilitating the integration of card applications with various health related applications using databases and network communication in addition to the information stored on cards.

The work of CEN/TC 224 started in parallel with CEN/TC 251, to a large extent with the same experts. CEN/TC 251 received a mandate from EU and EFTA and developed the ENV 12018 entitled "Medical informatics – Identification, administrative, and common clinical data structure for Intermittently Connected Devices used in healthcare (including machine readable cards)" which was adopted in 1997. This standard is currently undergoing a major revision in preparation for being transferred to a European Standard.

This CEN Report is largely based on ENV 12018 and contains large parts of this standard. The reason for including those initially was that as it had not been finalized, it could not safely be referenced. During the completion of this CEN/TC 224 work a few amendments compared to ENV 12018:1997 were included and provide one of the inputs to the revision of ENV 12018.

This CEN Report is also being presented to ISO/TC 215 and it is expected that the basic ideas and many details will be able to provide the basis for one or very likely several International Standards on this topic.

It is important to understand that the specification provided in this CEN Report although expressed as normative requirements, is not a European Standard.

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