



National Standards Authority of Ireland

IRISH STANDARD

I.S. CR 13644:2000

ICS 35.240.15

**MACHINE READABLE CARDS - HEALTHCARE
APPLICATIONS - LOGICAL ORGANISATION
OF DATA ON HEALTHCARE PROFESSIONAL
CARDS**

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel: (01) 807 3838

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
July 24, 2003*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2000

Price Code K

Údarás um Chaighdeán Náisiúnta na hÉireann

CEN REPORT
RAPPORT CEN
CEN BERICHT

CR 13644

December 2000

ICS

English version

Machine readable cards - Healthcare applications - Logical organisation of data on healthcare professional cards

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

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Foreword.....	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions.....	7
4 Symbols and abbreviations	7
5 Notations.....	8
5.1 Format descriptors	8
5.2 Data status.....	9
6 Logical data-set of HP-cards	9
6.1 The "HealthCareCardData" data object	9
6.2 The "DeviceData" data object.....	9
6.2.1 The "DevDirectory" data object.....	10
6.2.2 The "DevIdentification" data object	11
6.3 The "CardHolderData" data object.....	12
6.4 The "HealtCareProfData" data object	13
6.4.1 The "HCPNatInfo" data object	13
6.4.2 The "HCPSpecialisation" data object	14
6.4.3 The "Situation" data object.....	14
6.4.4 The "Diploma" data object.....	14
6.5 The "HealthCareWorkerData" data object.....	15
6.6 General data objects.....	15
6.7 Identification of card issuers and registered application providers	15
7 HP-cards memory lay-out	16
7.1 Structure of card memory	16
7.1.1 Identification of directories and files	17
7.1.2 Access conditions to data in a standard EF	17
7.1.3 The allocation of tags for data objects	17
8 The memory organisation of the HP-card	19
8.1 Device data	19
8.1.1 Template '60' : DevType	19
8.1.2 Template '62' : DevApplications.....	20
8.1.3 Templates '79' and '61' : Device directory information	20
8.1.4 DevIdentification	20
8.1.5 ATR information.....	21
8.1.6 Template '66' : HPCDevSecurity.....	21
8.2 Card Holder data	22
8.2.1 Template '67' : Card Holder information.....	22
8.3 HealthCareSites.....	23
8.3.1 Template '68' : HealthCareSites.....	23
8.4 CodingSchemesUsed	24
8.4.1 Template '6A' : CodingSchemesUsed.....	24
8.5 Linkages.....	24
8.5.1 Template '6B' : Linkages	24
8.6 HealthCare Professional data	25
8.6.1 Template '6D' : HealthCare Professional data	25
8.7 HealthCare Worker data	25
8.7.1 Template '6E' : HealthCare Worker data.....	26
9 Adding proprietary data to the HC card	26
9.1 Private templates and data objects.....	26
9.2 Private EFs.....	27
9.3 Private DFs	27

10	Part 3 : HP-cards visual aspects	28
11	The hierarchy of the data objects of a HP-card	29

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 IC-cards only. However, many of the data structures have a generic approach facilitating the integration of card applications with various health related applications using databases and network communication in addition to the information stored on cards. However, the security functions crucial for implementation of health professional cards were not addressed in this work. After the completion of the work presented here, several standards initiatives have addressed such security requirements and should be taken into account in providing a stable standard for such applications. One available result is the European prestandard ENV 13729 "Health informatics – Secure user identification for healthcare strong authentication using microprocessor cards". Other important developments are the European Electronic Signature Standardization initiative and the ISO/IEC JTC 1/SC 17 work on ISO/IEC 18027 "Identification cards – Cryptographic token information application".

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 partly based on ENV 12018 and contains parts of this standard. The reason for including those initially was that as it had not been finalized, it could not safely be referenced.

This CEN Report is proposed 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.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-