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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GA/T 490-2019

Specifications for machine-Readable information in resident identity card

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GA 490-2013 "Resident Identity Card Machine Readable Information Specification". Compared with GA 490-2013, the main changes are as follows.

-Amended to a recommended standard.

Please note that some elements of this document may involve patents. The issuer of this document is not responsible for identifying these patents.

This standard is proposed by the Public Security Administration of the Ministry of Public Security.

This standard is under the jurisdiction of the Computer and Information Processing Standardization Technical Committee of the Ministry of Public Security.

1 Scope

This standard specifies the representation method of the machine-readable information of the People's Republic of China ID card.

This standard applies to the production, testing, management and application of resident identity cards.

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2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this document.

For undated references, the latest version (including all amendments) applies to this document.

GB/T 2261.1 Classification and codes of personal basic information Part 1. Human gender code GB/T 3304 Roman alphabet spelling and codes for names of various ethnic groups in China GB 11643 citizenship number GB/T 13000 Information Technology Universal Multi-octet Coded Character Set (UCS) GA/T 449 Resident ID Terms GA/T 2000.16 Public Security Information Code Part 16. Resident Card Validity Period

3 Terms and definitions

The terms and definitions defined in GA/T 449 apply to this document.

4.1 Machine-readable information composition

Machine-readable text information file, machine-readable photo information file, machine-readable fingerprint information file, additional address information file and card body management number Piece composition. The composition of machine-readable information is shown in Table 1.

Table 1 Composition of machine-readable information

File name File capacity (bytes) Description the machine-readable text information file 256 stores machine-readable text information. Machine-readable text information adopts UTF-16 standard of GB/T 13000 Quasi-storage the defined data items in the machine-readable text message occupy 220 bytes, and the remaining 36 bytes are Reserved area each data item is a fixed length, and spaces are added for the short part (0x0020) Machine-readable photo information file 1024 Stores machine-readable photo information Machine-readable fingerprint information file 1024 stores fingerprint characteristic data Add address information file 280 to store address change information Additional address information file is stored in UTF-16 standard of GB/T 13000 each data item is a fixed length, and spaces are added for the short part (0x0020) Card body management number file 24 Stores the serial number of the ASIC and card serial number of the resident identity card

4.2 Machine-readable text message file

The data structure of the machine-readable text information file is shown in Table 2.

Table 2 Data structure of machine-readable text message file

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Sequence data item name Byte number identifier Description

1 Name 30 xm

2 Gender code 2 xbdm meets the requirements of GB/T 2261.1

3 National Code 4 mzdm Complies with GB/T 3304

4 Date of Birth 16 csrq Year. YYYYMMDD

5 Address 70 dzmc

6 Citizenship number 36 gmsfhm complies with GB 11643

7 Issuing authority 30 qfjgmc

8 Validity period start date 16 yxqqsrq The valid period of the resident ID card meets the requirements of GA/T 2000.16

9 Validity deadline 16 yxqjzrq Resident ID's validity deadline meets the requirements of GA/T 2000.16 10 36 Reserved area

4.3 Machine Readable Photo Information File the data structure of the machine-readable photo information file is shown in Table 3.

Table 3 Data structure of machine-readable photo information file

Sequence data item name Byte number identifier Description

1 Machine Readable Photo 1024 jdxp WLT file stored as a binary number, which can be Generate a JPG or BMP file with a decoding algorithm

4.4 Machine Readable Fingerprint Information File the data structure of the machine-readable fingerprint information file is shown in Table 4.

Table 4 Data structure of the machine-readable fingerprint information file

Sequence data item name Byte number identifier Description

1 Fingerprint 1_fingerprint characteristic data

2 Fingerprint two_Fingerprint characteristic data

4.5 Add Address Information File the data structure of the additional address information file is shown in Table 5.

Table 5 Data structure of additional address information file

Sequence data item name Byte number identifier Description

1 Machine Readable Additional Address 1 70 jdzjzz1

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2 Machine Readable Additional Address 2 70 jdzjzz2

3 Machine Readable Additional Address 3 70 jdzjzz3

4 Machine Readable Additional Address 4 70 jdzjzz4

4.6 Card body management number file the data structure of the card body management number file is shown in Table 6.

Table 6 Card body management number file data structure

Sequence data item name Byte number identifier Description

1 Resident ID card serial number 8 jmsfzzyjcdlxlh

2 Resident ID card serial number 16 jmsfzzkxlh

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