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# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# GA 426.1-2008

Replacing GA 426-2003

## Fingerprint data exchange format--Part 1: Fingerprint data exchange format specification

指纹数据交换格式 第1部分：指纹数据交换文件格式规范

**(English Translation)**

**Issued on: July 24, 2008** **Implemented on: July 24, 2008**

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## Foreword

All technical content in this section is mandatory.

GA 426 "fingerprint data interchange format" is divided into 14 parts.

--- Part 1. fingerprint data interchange file format specification;

--- Part 2. Task Description class record format;

--- Part 3. Ten fingerprint information recording format;

--- Part 4. scene fingerprint information recording format;

--- Part 5. Positive fingerprint check and the investigations than the information recording format;

--- Part 6. fingerprint check is heavier than the information recording format;

--- Part 7. Chubby string fingerprint information recording format;

--- Part 8. Field fingerprint query request information recording format;

--- Part 9. Ten fingerprints query request information recording format;

--- Part 10. Chubby positive results of candidate information recording format;

--- Part 11. The results of the investigations than the candidate information recording format;

--- Part 12. check the results of the candidate is heavier than the information recording format;

--- Part 13. string search result candidates than the information recording format;



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--- Part 14. Customizing the logical record format.

This is Part 1 GA 426 is.

This Part replaces GA 426-2003 "AFIS data exchange file format" in part, have not been included in place of GA 426-2008 "fingerprint data exchange format" in other parts.

This section GA 426-2003 compared with the following changes.

--- Modify the files that make up;

--- Expands the range of logical record;

--- Remove Appendix E (Normative Appendix) ANSI encoding information exchange, modify the definition of a separator for a direct reference GB/T 1988-1998;

--- Increase the swap file release notes, as an information appendix.

Appendix A of this section is an informative annex.

This part is proposed by the Ministry of Public Security Criminal Investigation Bureau.

The criminal section of the National Criminal Information Technology Standardization Technical Committee Technical Committee (SAC/TC179/SC2) centralized.

This section drafted by. Ministry of Public Security Criminal Investigation Bureau, Jiangsu Provincial Public Security Criminal Investigation Bureau, Ministry of Public Security Evidence Identification Center, Aerospace Science and Industry collection Group II Hospital 2 seven, Beijing PKU Fingerprint Technology Co., Ltd., Beijing Orient Golden Finger Technology Co., Ltd., Beijing Hisign tech CO., LTD.

## 1 Scope

This section specifies the file format GA 426 fingerprint data exchange.

This section applies to the exchange of fingerprint information between the Automated Fingerprint Identification System.

## 2 Normative references

The following documents contain provisions which, through reference in this Part of GA 426 constitute provisions of this section. For dated references, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encourage the agreement on this section Whether the parties can study the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 1988-1998 Technical information interchange bit coded character set (eqv ISO/IEC 646:1991) GB 2312-1980 exchange of information with Chinese characters coded character set basic set GB 18030-2005 Information technology - Chinese coded character



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set GA 773-2008 AFIS term GA 775-2008 fingerprint with the fingerprint feature point direction coordinate representation GA 788-2008 fingerprint image data compression ratio

## 3 Terms and Definitions

GA 773-2008 terms and definitions apply to this section established.

### 4.1 Document constitute

Fingerprint data exchange file consists of the file header and logical record. Each file contains a header that describes the class and a logical record or Business class more than one logical record.

### 4.2 Header

Header in the file starting position, including the file identifier and version number. File identifier is "FPT", used to identify the class text Member; version number specifies the reference standard data format consists of four digits, the first two representatives of the major version number, revision after two representatives this number.

### 4.3.1 Types of logical record

Divided into two types.

--- Task Description class logical record. used to describe the task information of the swap file;

--- Business logic class recording. fingerprint related information required for recording all kinds of business.

### 4.3.2 Document Composition

After the file header for the task Descriptive logical records, each file contains one and only one task description class logical record. Then you can Select one or more logical records according to use business class, the number of these logical record is defined in the job description logic class record.

4.3.3 The number of business class logical record the same type of business logic is not more than 256 records.



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