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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GA/T 1723.4-2020

**CTID online authentication - Authentication services - Part
4:TEchnical requirements for facial image capture control**

居民身份网络认证 认证服务 第4部分：人脸图像采集控件技术要求
(English Translation)

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Foreword

GA/T 1723 "Resident Online Identity Authentication Service" is divided into five parts:

---Part 1: Certification classification;

---Part 2: Service interface requirements;

---Part 3: Information acquisition control interface requirements;

---Part 4: Technical requirements for face image acquisition controls;

---Part 5: Face comparison engine interface requirements:

This part is part 4 of GA/T 1723:

This section was drafted in accordance with the rules given in GB/T 1.1-2009:

Please note that certain contents of this document may involve patents: The issuing agency of this document is not responsible for identifying these patents:

This part was proposed and managed by the Technical Committee for the Standardization of Social and Public Security Applications of the Ministry of Public Security:

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Introduction

Resident identity network authentication is one of the important links in the national implementation of the network credible identity strategy: Due to the virtual nature of the Internet Point, the traditional identity authentication method can no longer meet the needs of network user applications, and network identity authentication has a variety of authentication methods, Identity information is difficult to distinguish between true and false and other disadvantages, and it has caused new security issues such as data leakage, identity fraud, and privacy dissemination, and even threatened the country:

Safety: For this reason, it is urgent to carry out research from the perspective of standardization to build a safe, convenient, and unified resident identity network authentication technical framework, so as the identity and authentication of residents in the network space provide security guarantees, which will improve my country's network identity management level and realize the modernization of network social governance for technical support:

In order to meet the factors of defending against malicious prosthetic attacks, resisting illegal data tampering and improving image quality differences in the process of face image collection the application requirements of the face image collection control require the technical indicators of the anti-prosthesis attack technology and the output image quality requirements of the face image collection control and the encryption method of the image is standardized, and this part is specially formulated:

Resident identity network authentication service Part 4: Technical requirements for face image acquisition controls

1 Scope

This part of GA/T 1723 specifies the functions, performance, and requirements of the output image of the face image acquisition control in the resident identity network authentication:

Please wait:

This part is applicable to the collection and storage of facial images in resident identity network authentication:

2 Normative references

The following documents are indispensable for the application of this document: For dated reference documents, only the dated version applies to this article Pieces: For undated references, the latest version (including all amendments) applies to this document:

GB/T 17235.1-1998 Information Technology Digital Compression and Coding of Continuous

Tone Still Images Part 1: Requirements and Guidelines GB/T 35275-2017 Information Security Technology SM2 Cryptographic Algorithm Encrypted Signature Message Syntax Specification GB/T 37036.1-2018 Information Technology Mobile Device Biometric Recognition Part 1: General Requirements GA/T 1212-2014 Security face recognition application anti-prosthesis attack test method GA/T 1721 General Terms for Resident Identity Network Authentication GA/T 1722 Overall Technical Framework of Resident Identity Network Authentication

3 Terms, definitions and abbreviations

3.1

Terms and definitions the following terms and definitions defined in GB/T 37036.1-2018, GA/T 1212-2014 and GA/T 1721 apply to this article Pieces: For ease of use, some terms and terms in GB/T 37036.1-2018 and GA/T 1212-2014 are repeatedly listed below:

definition:

3.1.1

Liveface

Real human face with life:

[GA/T 1212-2014, definition 3:2] 3.1.2 Facial liveness detection the process of detecting whether the collected face image is from a living face:

3.1.3

Fakeface

A fake face posing as a real person:

Note: Counterfeit products such as face photos, face videos and artificial face masks:

[GA/T 1212-2014, definition 3:1]