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

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**Cybersecurity technology - Cryptographic application
identifiers**

网络安全技术 密码应用标识

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7 Safety Management Signs

7.1 Overview Security management identifiers are used in cryptographic service devices or interfaces for role management, key management, system management, and product management. This type of identifier is a dedicated phrase and data representation for security management. It is applicable in two scenarios. first, the invocation process of security management interfaces; and second, security systems... The process of collecting and processing log information for system or product management.

7.2 Role Management Identifier

7.2.1 Role Identification A role is the subject in management operations, the implementer of management activities, and also the object of management in role management operations. The character identifier is encoded from low to high bits, with bits 0 to 7 representing the character and bits 8 to 31 being 0.

7.2.2 Role Operation Icons Role operation identifiers include the role's own actions (login, logout, password change) and management actions on other roles (creating roles, etc.). Delete a character, modify a character, authorize a character, enable a character, disable a character.

7.2.3 Operation Result Identification The operation result identifier indicates the end status of the management activity, which can be either success or failure. The operation result labeling should comply with the provisions of Table 14.

7.3 Key Management Identifier

7.3.1 Key Type Identifier The key type identifier defines the attribute information of the key and belongs to the managed object. The encoding rule for the key type identifier is from least significant bit to most significant bit. bits 0 through 7 represent the key object, and bit 8 being 1 indicates the key. Type identifier, bits 9 through 31 are 0.

7.3.2 Key Operation Identifier The key operation identifier defines the operations performed on the key. The encoding rule for the key operation identifier is from least significant bit to

most significant bit, where bits 0 through 7 represent the key operation identifier, and bit 8 being 1 indicates... Key management class identifier, bits 9 through 31 are 0.

7.4 System Management Identifier System management identifiers define the phrases and data representing roles, operations, objects, and results when performing management operations on a security system. The encoding rule for the system management identifier is from least significant bit to most significant bit. Bits 0 to 7 represent system management operations, and bits 8 and 10 represent the least significant bit. The 31st bit being 0 and the 9th bit being 1 indicates a system management class identifier.

7.5 Product Management Identification

7.5.1 Basic Product Information Identification The basic product information identifier can be specified when obtaining the model and serial number information of the password product. The coding rule for basic product information identifiers is from least significant bit to most significant bit. bits 0 through 7 represent product information, bits 8 and 10 represent product information, and bits 9 through 10 represent product information. The 31st bit being 0 and the 9th bit being 1 indicates that it is a basic product information identifier.

7.5.2 Product Status Identification The product status identifier indicates the current working status of the password product. The encoding rule for the product status identifier is from least significant bit to most significant bit. The 0th to 7th bits represent the product status identifier; the 8th and 10th to 31st bits are 0; and the 9th bit is 1, indicating system or product management. Class identifier.

7.5.3 Product Number The product number can be combined with the product model to uniquely identify a specific password product. In cases where product models are the same, the product number... The number is unique, ensuring that there are no duplicates. **8.OID Definition in the Commercial Cryptography Field** In the field of commercial cryptography, the definition of OID should be implemented in accordance with the provisions of Appendix A.