Chinastandards.org

ICS 35.040
CCS L 80

GM

# GM/T 0088-2020

## Cloud cryptographic server management interface specification

云服务器密码机管理接口规范

**(English Translation)**

**Issued on: December 28, 2020** **Implemented on: July 1, 2021**

**Issued by: State Administration of Cryptography**

Preview: page 1 of 4 shown, 24 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gm-t-0088-2020

Chinastandards.org

# Table of Contents

1 Scope
2 Normative references
3 Terms and definitions
4 Abbreviations
5 System structure and interface location
6 Communication protocol and data structure
6.1 Communication protocol
6.2 Request method and URL rules
6.3 Authorization category
6.4 Certification information
6.5 Status information
6.6 Callback data
6.7 Operating status
7 Management interface description
7.1 Interface list
7.2 CHSM configuration management interface
7.2.1 Obtaining CHSM detailed information
7.2.2 Get CHSM running status
7.2.3 Get all status information of CHSM
7.2.4 Configure CHSM network information
7.2.5 Configuring the NTP service of CHSM
7.2.6 Configure the image upload address of CHSM
7.2.7 Configure the log upload address of the CHSM
7.2.8 Export CHSM image
7.2.9 Import CHSM image
7.2.10 Upgrade CHSM
7.2.11 Restart CHSM
7.2.12 Backing up CHSM
7.2.13 Restoring CHSM
7.3 VSM configuration management interface
7.3.1 Obtaining detailed VSM information
7.3.2 Obtaining the VSM running status



Preview: page 2 of 4 shown, 24 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gm-t-0088-2020

7.3.3 Configure VSM network information
7.3.4 Configure VSMToken information
7.3.5 Export VSM image
7.3.6 Import VSM images
7.3.7 Start VSM
7.3.8 Stop VSM
7.3.9 Restart VSM
7.3.10 Reset VSM
7.3.11 Upgrade VSM
7.3.12 Create VSM
7.3.13 Delete VSM
7.4 Authorized configuration interface
7.4.1 Obtaining the fingerprint of the CHSM cloud platform public key
7.4.2 Configure the cloud platform public key of CHSM

## 1 Foreword

GM/T 0088-2020 was issued by State Administration of Cryptography on 28 December 2020 and has been in force since 1 July 2021.

The GM/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 24 pages in English translation.

## 2 Scope Preview

GM/T 0088-2020 - 2 Normative references 1 3 Terms and definitions 1 4 Abbreviations 2 5 System structure and interface location 2 6 Communication protocol and data structure 3 6.1 Communication protocol 3 6.2 Request method and URL rules 3 6.3 Authorization category 3 6.4 Certification information 3 6.5 Status information 3 6.6 Callback data 3 6.7 Operating status 4 7 Management interface description 4 7.1 Interface list 4 7.2 CHSM configuration management interface 5 7.2.1 Obtaining CHSM detailed information 5 7.2.2 Get CHSM running status 6 7.2.3 Get all status information of CHSM 7 7.2.4 Configure CHSM network information 8 7.2.5 Configuring the NTP service of CHSM 8 7.2.6 Configure the image upload address of CHSM 9 7.2.7 Configure the log upload address of the CHSM 9 7.2.8 Export CHSM image 10 7.2.9 Import CHSM image 11 7.2.10 Upgrade CHSM 11 7.2.11 Restart CHSM 12 7.2.12 Backing up CHSM 12 7.2.13 Restoring CHSM 13 7.3 VSM configuration management interface 14 7.3.1 Obtaining detailed VSM information 14 7.3.2



Preview: page 3 of 4 shown, 24 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gm-t-0088-2020

Obtaining the VSM running status 15 7.3.3 Configure VSM network information 15 7.3.4 Configure VSMToken information 16 7.3.5 Export VSM image 16 7.3.6 Import VSM images 17 7.3.7 Start VSM 17 7.3.8 Stop VSM 18 7.3.9 Restart VSM 18 7.3.10 Reset VSM 19 7.3.11 Upgrade VSM 19 7.3.12 Create VSM 20 7.3.13 Delete VSM 21 7.4 Authorized configuration interface 21 7.4.1 Obtaining the fingerprint of the CHSM cloud platform public key 21

GM/T 0088-2020 falls under ICS 35.040, in the field of information technology.

This catalogue holds 105 other GM/T standards in that field.

In this catalogue, GM/T standards carry edition years from 2012 to 2024.

## 3 About this standard

Issued by: State Administration of Cryptography

English translation: about 24 pages

Chinese original: about 28,268 characters

## 4 Related standards

Standards on related subjects:

GM/T 0089-2020 - Simple certificate enrollment protocol specification

GB/T 15843.1-2017 - Information technology -- Security techniques -- Entity authentication -- Part 1: General

GA/T 1389-2017 - Information Security Technology - Guidelines for Grading of Classified Protection of Cyber Security

GM/T 0080-2020 - SM9 cryptographic algorithm application specification

GM/T 0079-2020 - Direct anonymous attestation specification for trusted computing platform

GM/T 0078-2020 - The design guidelines for cryptographic random number generation module

## 5 Classification and status

International classification (ICS): 35.040

Chinese Standard Classification (CCS): L 80

Prefix GM/T: recommended standard.



Preview: page 4 of 4 shown, 24 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gm-t-0088-2020