

ICS 33.060.01  
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**GA**

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

**GA/T 1416-2018**

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**General technical requirements for public security short-wave  
digital communication networking**

公安短波数字通信网组网总体技术要求

**(English Translation)**

**Issued on: March 26, 2018**

**Implemented on: March 26, 2018**

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**Issued by: Ministry of Public Security**

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### Foreword

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

This standard is one of the series of standards for public security shortwave digital communication network networking. The expected structure of the series of standard documents is as follows.

---General technical requirements for public security shortwave digital communication network networking;

--- Public security short wave digital communication network networking project construction requirements;

--- Public security short wave digital communication network networking project acceptance requirements.

This standard was proposed by the Public Security Marine Police College.

This standard is under the jurisdiction of the Communications Standardization Technical Committee of the Ministry of Public Security.

### 1 Scope

This standard specifies the overall framework and network composition of the public security short-wave digital communication network, networking technical requirements, frequency planning, address and General requirements such as identification number and basic performance indicators of channel equipment.

This standard applies to the overall planning, engineering construction and system acceptance of the public security shortwave digital communication network.

## 2 Normative references

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

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

GB/T 6934-2017 Short-wave single-sideband receiver electrical performance measurement method  
GB 13614-2012 Short-wave radio receiving station (station) and direction-finding station (station) electromagnetic environment requirements  
GB/T 15540-2006 Electromagnetic compatibility technical requirements and measurement methods for terrestrial mobile communication equipment  
GB/T 18304-2001 Information Technology Internet Chinese Specification Email Transmission Format  
GB 19517 National Electrical Equipment Safety Technical Specification  
GJB151A Military equipment and sub-system electromagnetic emission and sensitivity requirements  
GA/T 380-2012 National Public Security Organs Code Preparation Rules  
YD/T 1171 IP network technical requirements network performance parameters and indicators  
ITU-TE.164-2010 International Public Telecommunication Numbering Plan

### 3.1 Terms and definitions

The following terms and definitions apply to this document.

#### 3.1.1

Rapid detection mechanism  
rapid detecting mechanism the terminal device re-configures the power after the time synchronization information obtained by the mobile short-wave channel controller is synchronized with the access node.

The station communication parameters, and then initiate a chain application to the central station. After receiving the application for establishing the connection of the terminal equipment, the central station synchronously calls the terminal equipment, the square synchronously detects the receiving/transmitting channel, selects the best receiving frequency and transmitting frequency in real time, and quickly establishes a high-quality communication link.

#### 3.1.2

Uplink frequency

The frequency resource used by the terminal device to transmit signals.

#### 3.1.3

Downlink frequency

The frequency resource used by the central station to transmit signals.

#### 3.1.4

##### Coverage

The geographic area where the central station can provide effective services.