Main content

Monitoring and early warning

- Monitoring facilities
- Early-warning mechanism

Communication system

- Equipments and network
- Application of emergency response
Important public infrastructure
Related closely to national safety and stability

Qinghai-Tibet Highway

Eji'naqi Highway of Inner Mongolia

Xinjiang Expressway
Highway operation monitoring
Bridge monitoring center
Online monitoring and regional joint action

Expressway command and dispatch center of Liaoning Province
Road information report system
The Ministry of Transport and the State Meteorological Administration have signed two agreements to strengthen the communication and cooperation with the meteorological departments and effectively develop the information collection, forecasting and early warning of severe weather.
Monitoring and forecasting mechanism

- Have established mutual exchange of information and joint action mechanism with the departments such as oceanography and geological to regularly release disaster early warning.
### Monitoring and forecasting

- Monitoring equipments
- Early warning mechanism

### Communication system

- Equipment and network
- Application of emergency response
The maritime satellite terminal is the important communication equipment of the rescue team of China.

The Minister of the Ministry of Communication (MOC) Zhang Chunxian was inspecting Beijing Land Earth Station (LES).
Satellite mobile phone
- Adaptable to individual voice communication

Satellite data terminal
- Portable equipment and the smallest is 1 kg
- 492 high-speed data
- 256kbit/s video image

Vehicle-mounted satellite terminal
- Omnidirectional antenna
- Communication in moving
- Voice, data and image
BGAN: One equipment and three kinds of networks

Communication equipments

- Laptop PC or Mac
- Voice & ISDN
- BGAN Device
- Earth Station
- BGAN IP Network
  - IP Router
  - LAN
- BGAN IP-Streaming Network
  - IP Router
  - LAN
- Switch
- Voice & ISDN
- BGAN circuit switching network
Private network of traffic government affairs
Communication network

Special VSAT for transport
Main content

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The first image of earthquake area sent by the maritime satellite equipment during Wenchuan earthquake.

All other communication ways have been interrupted after Wenchuan earthquake and finally the outside world has successfully established contact with the earthquake area through the maritime satellite equipments.
Communication center of the Ministry of Transport

- Release 1000 satellite phones to Wenchuan earthquake disaster area
- Provide direct service support for more than 2500 terminals
- Coordinate the network resources: the capacity has expanded by more than 10 times
- Dispatch more than 10 professional engineers to support the disaster area
- Provide all business data and 24-hour customer service as well as the emergency power supply
危险化学品道路运输安全监
管需要跨区域联合监管与信息服务平台。
The “3.29” extra-serious accident of liquefied chlorine leakage on the Huai’an section of Beijing-Shanghai expressway in 2005, 29 persons died, 456 persons were poisoned and more than 10500 persons were evacuated.
Coast station

GMDSS
Application

Search and rescue through satellite positioning
Communication on the Yangtze River

Application

长江船岸甚高频（VHF）通信工程
After the construction of many years, the transport information communication has developed to the current comprehensive information communication way with ground communication, satellite mobile communication, highway communication and private communication of government affairs for ministry departments, has formed the space-ground integrated traffic communication system of water, land and space and has played huge role in highway and waterway transport industry.
Thanks