



## China Meteorological Administration

**Industry and Location**  
Government | China

**Product(s) and Service(s)**  
SUSE Linux Enterprise Server  
SUSE Linux Enterprise Desktop

China Meteorological  
Administration Increased Security  
and Improved Services with SUSE  
Linux Enterprise Server

# Success Story

## At-a-Glance

China Meteorological Administration's communication system became a burden as it expanded to reach more customers across the nation. Running on three disparate platforms, the old system could no longer keep up with the agency's increasing demands. By moving to SUSE Linux Enterprise Server, the agency increased security and improved its ability to provide more services, while dramatically reducing costs.

# Introducing China Meteorological Administration

## Overview

The China Meteorological Administration (CMA) is a public service agency directly affiliated with the State Council of the People's Republic of China. CMA's network of more than nine national research institutes manages operations for meteorological services across the country that serve the government agencies involved in national economic construction, social development and security.

## Challenge

CMA relies on real-time communication to provide timely and accurate weather information around the clock. The agency's meteorological service system consists of multiple sectors including weather forecast and climate prediction. In recent years, CMA expanded its meteorological service



to more customers and regions. As a result, the old communication system became insufficient to meet the agency's needs. The agency needed a high-performance infrastructure to ensure data integrity, reduce system administration costs and prevent downtime.

CMA's UNIX infrastructure, consisting of three disparate platforms including IBM UNIX, DEC UNIX and SCO UNIX, also placed a burden on the agency's IT staff. Administration and maintenance costs were high, with IT staff spending a significant amount of time and effort on trying to improve system operating performance.

CMA recognized that to streamline its IT operations and improve its service, it needed to move to a more cost-effective, open system. This would help the agency achieve greater efficiency and provide 24/7 availability of critical weather information across the nation.

## Solution

To upgrade its architecture, CMA evaluated several Linux providers, including Turbo Linux. The agency ultimately selected SUSE Linux Enterprise Server (SLES) to ensure the stability and performance of its communication system.

“We are pleased with the performance and simplicity of SUSE Linux Enterprise Server. The results speak for themselves: administration is easier; we’ve improved response times and security; and we have greater flexibility.”

**Chen Jianjun**

Executive of Computer and Network Project Department  
Information Center  
China Meteorological Administration

CMA implemented SLES on an IBM eServer xSeries embedded with high-performance, dual-core 64-bit Intel Xeon Processors MP. The new communication system runs more than 80 servers in the SUSE Linux Enterprise (SLE) environment, increasing the agency’s capability to provide users with real-time information and enabling it to scale its systems as its requirements change.

“SLES provides us with the scalable, high-performance foundation that we require to run our operation effectively,” says Chen Jianjun, executive, Computer and Network Project Department, Information Center, CMA. “Together with IBM xSeries, SLES is the perfect solution for our mission-critical application environment and addresses our need for uninterrupted operation.”

With the unique and open management capabilities of SLES, CMA’s IT staff may easily install, deploy, configure and update Linux servers securely, anywhere on the network. YaST® allows the staff to configure any aspect of the server, significantly reducing the time and costs involved in administration and maintenance.

With the integration of SUSE AppArmor®, SLES also provides enterprise-class application security to protect against potentially harmful attacks, malicious applications and viruses by creating a firewall around applications, preventing intruders from getting inside the application firewall. To improve its system monitoring capabilities, CMA deployed SLE Desktop on approximately 30 IBM xSeries servers.

“With SLE Desktop as a platform, we can now implement the monitor system we developed more effectively,” says Jianjun. “We are also more confident that the security and stability of our data transmission can operate flawlessly, 24 hours a day, seven days a week. It makes supporting and integrating a number of different applications easy for our staff, and it is also stable and scalable.”

**Results**

With SLES running on IBM eServer xSeries 366, CMA minimized downtime and increased security and timely access to information.

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The agency reduced its user administration costs by 70%. Because of the open nature of the system, CMA’s IT staff may also develop applications more efficiently.

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**Benefits**

- Reduced user administration costs by 70%
- Increased the efficiency of CMA IT staff in developing applications
- Increased security and scalability

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