

Wuxi Public Security Bureau

"Double-Take Availability has all of the necessary features we needed to ensure a solid disaster recovery plan for Wuxi Public Security Bureau. It works in a physical to virtual environment, it provides real-time replication and failover, and it is cost-effective. We can ensure that our public business functions are secure and available at all times."

Cao Jizhong, Chief Engineer, Wuxi Public Security Bureau

Business Profile

Company Name:
Wuxi Public Security Bureau, China

Headquarters:
Wuxi City, Jiangsu province, China

Industry:
Government

Business Environment:

- Wuxi Public Security Bureau is the major unit of the government of Wuxi City
- Conducts around-the-clock operations
- Is responsible for the security and welfare of citizens of Wuxi

Vision Solutions Product:
Double-Take® Availability

Critical issue

Wuxi Public Security Bureau has six major divisions that all require 24x7 business continuity to protect the public. A minor system failure could cripple their operations.

Results

- Full recovery from a system failure often occurs within one minute.
- Business transactions are replicated in real-time.
- All of the diverse components in their computing environment are protected by Double-Take Availability.
- Reduced the cost of implementing their business continuity plan.

Technologies

- Double-Take Availability
- Microsoft Windows
- MS SQL Server
- Microsoft Exchange Server
- Tomcat, Apache and other Web infrastructure and applications
- Multiple virtualization technologies

Business Challenge

The infrastructure team within the Wuxi Public Security Bureau recognized the need solid business continuity plan to maintain the ongoing functions of their numerous divisions. A business continuity plan helps keep critical functions running during an emergency. Even the slightest interruption or loss of data could cripple their operation.

With the need to protect Oracle and SQL on the Windows platform (2000 and 2003), Wuxi Public Security Bureau worked closely with Vision Solutions to design a disaster recovery plan for their IT environment. Among many things, the plan called for the replication of several branch physical servers to one virtual server (a many-to-one scenario) for centralized backup.

Wuxi Public Security Bureau is one of many organizations leveraging the power of virtual environments. By combining virtual machines with data replication technology Wuxi Public Security Bureau can provide high availability, enable cost-effective disaster recovery, and allow multiple offices to leverage shared hardware without sacrificing security.

As an example, Wuxi has a physical server in each detachment office that replicates data to a virtual machine at the main headquarters. This allows disperse servers with different applications to leverage a common availability platform.

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Solution

Wuxi Public Security Bureau chose Double-Take Availability to deliver a physical to virtual business continuity solution. In this situation, Wuxi PBS is leveraging the power of virtual machines as secondary servers in a standard replication and failover scenario.

By replicating their physical machines to one virtual machine (in a many to one scenario), Wuxi can report a large cost savings due to the consolidation of data and applications. Virtual server technologies combined with Double-Take Availability provide Wuxi Public Security Bureau with the ability to do more with less, enabling the consolidation of data and applications onto a single server.

Double-Take Availability protects data and applications including Exchange, SQL Server, SharePoint so they can recover business-critical data that resides throughout their IT environment. It combines continuous real-time replication and full-server failover capabilities for disaster recovery, high availability, and centralized backup. It delivers better protection than many hardware-based solutions, and it costs tens of thousands less.

The product from Vision Solutions worked well for the Wuxi Public Security Bureau because it lowered the cost of their business continuity plan by implementing virtual target servers and Double-Take Availability. Virtual server technologies provide companies with the ability to do more with less, enabling the consolidation of data and applications onto a single server. The result is reduced costs, simplified IT management, and minimized space requirements. The need to protect these virtualized systems is paramount and in situations where companies are looking to reduce the costs associated with disaster recovery planning, virtualization can enable easier recovery without a great deal of additional cost.



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◆ High Availability ◆ Disaster Recovery ◆ Systems and Data Management ◆