



Onewave Technologies Inc.  
Shanghai, China  
www.onewaveinc.com

#### Industry:

Communications

#### Annual Revenue:

US\$10 million

#### Employees:

More than 200

#### Oracle Products & Services:

Oracle Berkeley DB  
Oracle TimesTen In-Memory Database  
Oracle Database

**“We embedded Oracle Berkeley DB, Oracle TimesTen In-Memory Database, and Oracle Database 10g in our end-to-end IPTV solutions. With Oracle embeddable databases, we improved the multi-business adaptability of our systems and equipment as well as the overall performance of the cache. We were also able to reduce the overall cost of our IPTV solutions, significantly improving the competitive advantage of our products.”** – Qian Ming, CTO

## Onewave Technologies Embeds Databases to Improve Performance of IPTV Solutions

Onewave Technologies, Inc. is a leading IPTV solution provider specializing in the development and deployment of integrated streaming platforms for service providers. This allows it to effectively and efficiently deliver entertainment content to its subscribers. The company has the largest content distribution network (CDN) implementation in Asia and the largest IPTV implementation in China, where it has a 50% share of the CDN market. Onewave is headquartered in Shanghai with additional research and development centers in Hangzhou, Chengdu, Beijing, Guangzhou, and Silicon Valley in the United States.

### Challenges

- Demand for large content information storage (cache >1 million hours of content, node >10 million hours of content)
- Cater to frequent queries and synchronization, and support insert, delete, and update operations
- Ensure very high performance
- Facilitate many concurrent Web site visits and inquiries
- Deliver requirement for transactional protected configuration data storage

### Solution

- Embedded Oracle Berkeley DB High Availability and Oracle TimesTen In-Memory Database in several products within its suite of IPTV solutions to improve overall performance
- Adopted Oracle Database 10g to store and manage high volumes of content intelligently according to record usage
- Deployed Oracle TimesTen In-Memory Database as a high-performance cache for its Electronic Program Guide Web portal, which supports up to 500 concurrent visitors
- Implemented Oracle Database 10g for media asset management system, content management and publishing system, and content network operational support system
- Leveraged Oracle’s comprehensive suite of embeddable databases across its product line for mission-critical cases, including system configuration data, status data of nodes for the IPTV service, and a real-time alarm function to control local content resources