

## Real-time Data Mirroring Cluster High-availability Solutions

- Intelligent automatic failover
- Comprehensive HA policy for easy setup and management
- Real-time online mirroring
- Supports ZKBioSecurity and ZKBioTime

Conventional High-availability systems generally are required to be achieved through sharing storage which bring about extra cost. With Real-time data mirroring technology and Ethernet TCP/IP protocol, ZKTeco solution offers flexible method to configure with two servers with needing to share storage to provide data disaster recovery and application continuity.

The ZKBioHA monitors and protects server's IP, applications and data I/O via HA technology. When application or server encounter failure, ZKBioHA automatically and quickly switch to the standby server, to guarantee continuous and seamless operation. ZKBioHA is fully integrated with ZKTeco server base applications: ZKBioSecurity / ZKBioTime to offer you a reliable solution to secure your system.

### Features

• Intelligent Automatic Failover	<ul style="list-style-type: none"><li>• Automatically implements failover in case of failure</li><li>• Active IP remains unchanged after switching HA server</li><li>• Easy configuration and deep integration</li></ul>
• Comprehensive HA policy for Easy setup and management	<ul style="list-style-type: none"><li>• Monitors application and hardware resources in real-time</li><li>• Active alert provides timely warning via SMS, online syslog and email</li></ul>
• Real-time online mirroring	<ul style="list-style-type: none"><li>• Real-time replication of data to provide a high-level real-time protection</li><li>• Wide range database architecture supports (PostgreSQL, Microsoft SQL, MySQL and Oracle)</li></ul>
• Snapshot function	<ul style="list-style-type: none"><li>• Able to reserve multiple data at historical time point.</li><li>• If any problem of Active-standby data occurs, it can recover the data at any snapshot time to ensure data security.</li></ul>

## Specification

<b>Product</b>	ZKTeco ZKBioHA
<b>Supported Systems</b>	Windows Server 2008 / 2012 / 2016
<b>Data Bases</b>	Oracle, MSSQL, Sybase, DB2, MySQL, Informix, etc.
<b>WEB Servers</b>	IIS, Tomcat, Apache, etc.
<b>File Servers</b>	Samba, FTP, NFS, etc.
<b>Supported Storages</b>	iSCSI / IPSAN / FCSAN, etc

## Diagram

### ZKBioHA

#### Active/ Standby Server

ZKBioHA performs real-time monitoring to applications, services and hardware resources, and offers "Active Alert" to end users.

### ZKBioHA

#### Active/ Standby Server

Deep Integration ZKTeco application  
Wide range database architecture supports  
Postgre/ Microsoft SQL/ MySQL/ Oracle

