

ABSTRACT

The present disclosure provides a disaster recovery method and system based on a redundant architecture and belongs to the technical field of off-site disaster recovery. The method includes deploying a third-party arbitration platform and secure subsystems at different geographic locations; periodically communicating, by a master system and a backup system, with each other and monitoring a communication status of each other; upon detecting an abnormal communication status, transmitting, by at least one of the master system or backup system, an arbitration request to the third-party arbitration platform; executing, by a master of the master system, a host task and performing data synchronization operation on other computers in the disaster recovery system; and upon receiving the arbitration request, determining, by the a third-party arbitration platform, whether to switch one of at least one backup system to a new master system. According to the method provided in the present disclosure, based on the unique arbitration mechanism of the third-party arbitration platform, rapid detection and seamless switching are achieved in cases of communication anomalies or equipment failures.

Fig. 2