

NEC ExpressCluster WAN RFP Specifications

The following specifications can be used in customer RFPs to describe NEC ExpressCluster WAN.

- The disaster recovery solution shall provide automatic recovery of critical applications and data on the remote standby server within 5 minutes of any site failure event. The automatic recovery shall require no manual client system reconfiguration to connect to the remote standby server.
- The disaster recovery solution shall provide flexible data protection with configurable choice for 1) synchronous data mirroring protection that guarantees all data committed to disk(s) on the primary server is available on remote standby server without data loss and 2) asynchronous data mirroring protection that performs data copy from the primary server to remote standby server on best effort basis with more flexible wide area network (WAN) link requirements.
- The disaster recovery solution shall support synchronous data mirroring over dedicated wide area network (WAN) link with a minimum bandwidth requirement of 1.5Mbps and round trip latency of 70ms or less provided the WAN link meets target application data access frequency, size, and latency requirements.
- The disaster recovery solution shall support data mirroring between disks from multiple manufacturers and vendors.
- The disaster recovery solution shall not require external data storage systems to enable data protection functionality.
- The disaster recovery solution shall support standard editions of target operating systems and database servers including:
 - Microsoft Windows Server 2000 Standard Edition
 - Microsoft Windows Server 2003 Standard Edition
 - Microsoft SQL Server 2000 Standard Edition
 - Microsoft SQL Server 2005 Standard Edition
 - Oracle Database 9i Standard Edition
 - Oracle Database 10g Standard Edition
- The disaster recovery solution shall support standard Ethernet and IP network protocols and infrastructure.
- The disaster recovery solution shall support incremental changed data resynchronization between primary and standby servers after a failed server is restored provided the original disk content on the failed server is fully preserved.

- The disaster recovery solution shall support active/active configuration of the primary and the standby server where both servers run separate applications at the same time while serving as backup for each other.