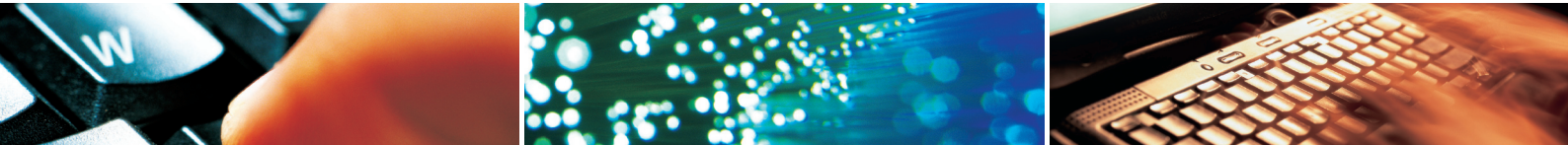




HIGH-AVAILABILITY

RSF-1



The world never stops...

...and neither should you business, servers, or mission-critical applications. Today's Enterprises require High-Availability support 24x7 global Internet operations and services. Downtime, whether planned or unplanned, can be disastrous...

RSF-1 High-Availability Clustering Solution Ensure the High-Availability of mission-critical applications by delivering near 100% application Availability. RSF-1 provides continuous multi-directional monitoring of servers and services, automatically migrating failed services to alternate nodes in the cluster, resulting in mainframe-class reliability, availability and scalability.

Heterogeneous Support

RSF-1 is currently available for Solaris (SPARC & x86), AIX, HP-UX, SCO, OpenServer, UnixWare, UnixWare, FreeBSD, OpenBSD, SGI and Linux (redhat and Caldera). RSF-1 supports from 2 to 64 servers per cluster running up to 200 data services, which maximises existing resource utilisation while simultaneously eliminating points of failure.

Heartbeat Communications

Each RSF-1 server initiates heartbeat communications, which contain the state of the server and any running services. For increased resiliency, RSF-1 utilises multiple heartbeat types; network (UDP/IP), serial (HDLC) and disc (raw SCSI). In addition, multiple instances of each heartbeat type can easily be configured, for example; public and private network interfaces.

Hardware Monitoring

When a hardware failure of a cluster node is detected, RSF-1 automatically migrates any running data services to an alternate node in the cluster. The failed node can then be repaired and brought back online before rejoining the cluster.

Application Monitoring

Each major Enterprise application has an associated monitoring agent. If the application fails, the monitoring agent informs RSF-1, which can then attempt to restart the service on the same node, or failover the service to another node in the cluster.

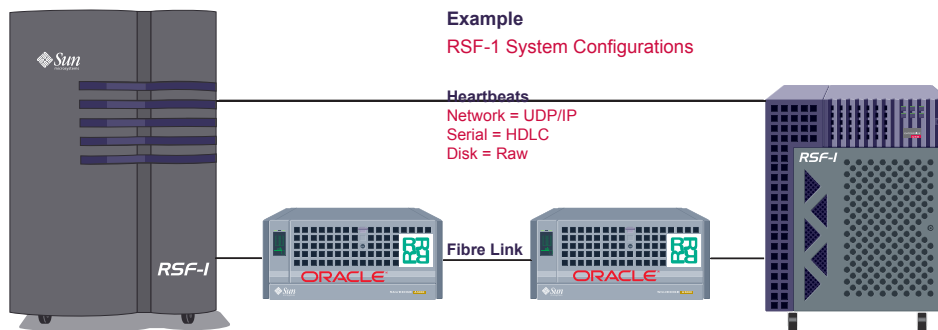
Virtual IP Addressing

Each data service is assigned a virtual IP address. When a failover occurs, this virtual address is migrated along with the service and automatically reconfigured on the new cluster node. From a client's perspective no reconfiguration is necessary and failover is transparent.



Compatibility Includes:

AR System 2.x-6.x
SITS, SAP, Blackboard, Academy
Oracle, Sybase, Informix, DB2, MySQL...
Web/NFS/Samba
Many more



NetMon

The network monitoring agent continuously monitors the LAN for connectivity. Ideal for multi-network servers, a services's virtual IP address can be migrated seamlessly to a standby NIC in the case of network adapter, cable or switch failure.

SMS Alert Module

The SMS alert module can be configured to automatically text predetermined cellular telephones on a server, service, or network event/failure.

Cluster Administration

The cluster can be administered via the GUI on any Java-enabled platform. The GUI comprises intuitive views and log information, enabling controlled failovers to be initiated if a cluster node needs to be taken offline for planned maintenance without interrupting service. Command Line Interface (cli) is also available for more traditional administrators and for use in scripts.

Storage Independent

RSF-1 integrates seamlessly with existing Enterprise storage architectures, from legacy SCSI storage devices and NAS, to fibre channel arbitrated loop (FCAL) and switched fabric SAN topologies.

SAN Integration

When applications are clustered in a SAN environment, the characteristics of these topologies further enhance RSF-1's ability to provide availability and scalability due to the always-available nature of the storage infrastructure.

Disaster Recovery and Business Continuity

Dark fibre allows for the geographic separation of cluster nodes up to 10km apart, further enhancing RSF-1's ability to provide High-Availability in a disaster recovery scenario.

RSF-1 is registered trademark of High-Availability.Com

