



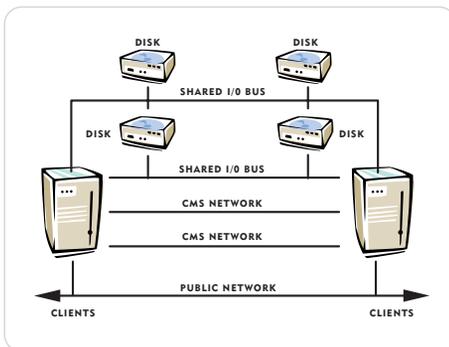
THE POWER  
OF UNIX®

# RELIANT®HA

CLUSTERING FOR ANY SIZE BUSINESS

Reliant®HA is a clustering solution for any size business requiring high levels of application and data availability. Businesses today are increasingly dependent on large servers to support their information processing needs, and any interruption in these services can be enormously expensive.

## RELIANT®HA RELEASE 1.1.4



ReliantHA for UnixWare® increases the overall availability of applications and critical data by connecting multiple servers together as nodes within a single high-availability fail-over cluster. Applications do not need to be aware of the operation of the cluster, and all nodes within the cluster may be used simultaneously for processing.

ReliantHA extends the high performance, Reliability, Availability and Scalability (RAS) characteristics of all the UnixWare server operating system editions to provide continuous monitoring and fault detection of applications, resources, and entire

nodes. In the event of a failure, automated recovery scripts are initiated to enable rapid or transparent restoration of services, depending on the application. Recovery actions include the unattended restart of resources, switching to alternative data paths, or migrating services to other systems within the cluster. Once a failed node has been replaced or repaired it may be returned to service in the active cluster. A graphical Configuration Manager provides a single point of control for all ReliantHA cluster services.

ReliantHA is ideal for increasing the availability of business critical applications such as transaction processing, database, email, Web, file and print services.

Release 1.1.4 can also be installed as an upgrade to earlier releases of ReliantHA.

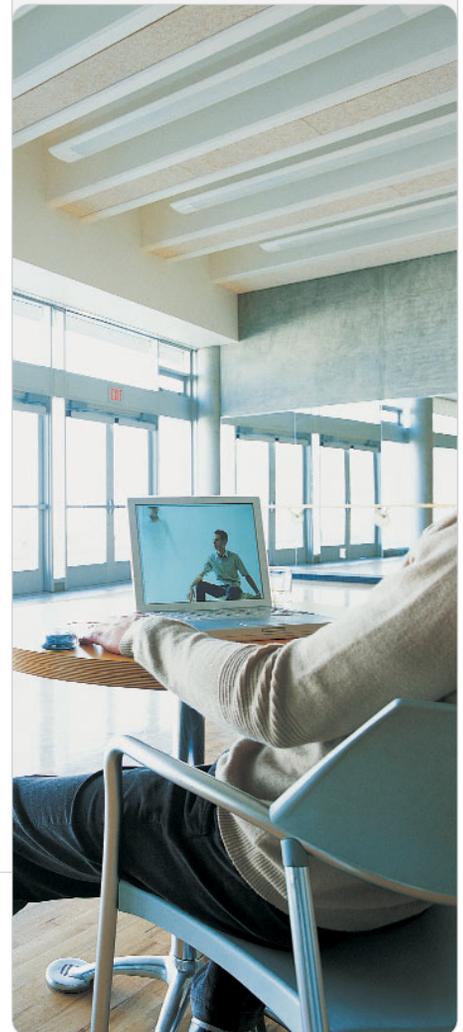
## FEATURES

- > High-availability clusters of 2-to-4 nodes, with all nodes simultaneously active
- > Automated fault detection and recovery
- > Supports standard Intel-based enterprise servers with off-the-shelf RAID and networking solutions
- > Includes tools to create custom fail-over configurations with sample detectors and scripts
- > Graphical installation and management
- > Runs on UnixWare 7.1.4, the leading price/performance server operating environment
- > Also runs on prior versions of UnixWare from UnixWare 7.1.3 through UnixWare 7.1.1
- > Supports fail-over of both UNIX and Linux applications when running on UnixWare

*High availability*

*for your critical UNIX*

*business applications.*





- > Comes with ready scripts and tools for creating custom configurations, with example detectors and failover scripts provided for NFS, webservers, Oracle and other generic applications
- > Online documentation and full integration with SCOadmin
- > Simple software installation



#### BENEFITS

- > High availability and workload balancing using heterogeneous UP and SMP servers
- > Fast recovery of data services to client systems without operator intervention
- > Wide choice of affordable, high performance components
- > Fine-grained controls permit tailoring to your specific needs
- > Single point of control simplifies cluster administration
- > Enterprise class performance and scalability with access to thousands of applications

#### CLUSTER MANAGEMENT

- > Supports 2-to-4 node loosely coupled clusters
- > Graphical Installation and Management
- > Local and remote administration capabilities

#### FAILOVER AND RECOVERY

- > Continuous monitoring and rapid detection of hardware, resource, application and full system failures
- > Reliable, redundant private network paths between systems using Ethernet or serial connections

- > Shared data bus provides alternative path to stored data in the event of a node failure
- > Customizable detectors and recovery scripts written in C, C++, or shell scripting languages

#### APPLICATIONS SUPPORT

- > Transparent to all UnixWare applications
- > Predefined scripts for NFS, and databases (available from the SCO Web site)
- > Supports shared NFS configurations
- > Comprehensive scripting capabilities for describing application start up, recovery behavior and dependent resources

#### HARDWARE SUPPORT

- > Supports commodity industry standard Intel® Pentium® and compatible single and multi-processor servers with standard serial, NIC, and SCSI HBA peripherals. Shared storage configurations use industry standard SCSI HBAs connected to external JBOD or RAID cabinets.

*Note: ReliantHA requires specific functionality of the SCSI Host Bus Adapters(HBA), Network Interface Cards(NIC), and shared storage devices as described in the System Requirements below.*

*For more information please refer to the ReliantHA Release and Installation Notes located on the Optional Services CD in your media kit. See the SCO Website for the latest updates and the ReliantHA Technical Whitepaper.*

*For the latest list of compatible hardware see: <http://SCO.com/chwp>*

#### PROFESSIONAL SERVICES FOR CLUSTERING

SCO Professional Services has announced new packaged Service offerings to help customers benefit from SCO's Clustering products.

Customers can have SCO's professionals help determine clustering needs, prepare clustered systems for deployment and optimize current applications to make best use of clustered systems.

More information is available at [www.SCO.com/consulting/clustering](http://www.SCO.com/consulting/clustering)

## RELIANT® HA

#### SYSTEM REQUIREMENTS

*For each server in a cluster:*

##### Software:

- UnixWare 7.1.4, or prior UnixWare release operating system
  - ReliantHA software - Located on the Optional Services CDROM in your Operating System Media Kit
- Note: All servers in the cluster should be running the same version of the Operating System*

##### Licenses:

- UnixWare 7.1.4, or prior UnixWare Edition License
- ReliantHA Single Server License

##### Hardware:

- SCSI HBA with Multi-Initiator capabilities (at least one per shared data bus) and compatible storage devices
- At least one NIC with Multi-cast MAC addressing for the Public LAN. Multi-cast MAC addressing is required to maintain networking configurations in the event of fail-over
- At least one NIC with Multi-cast MAC addressing for the Private (cluster) LAN. More than one Private NIC provides better fault tolerance. Multiple NICs require re-programmable primary MAC addresses
- 64MB RAM minimum, 256MB recommended
- 10MB Disk space in root and /usr filesystems minimum, 1GB or more disk space in root and /usr filesystems recommended

##### For at least one server in the cluster:

- One UnixWare 7.1.4, or prior UnixWare release Media Kit. A Media Kit per server will speed up installation
- One UnixWare Development Kit (UDK) License. The UDK CD-ROM is in your Media Kit
- One CD-ROM drive minimum for installing software. A CD-ROM drive on each server will speed up installation

#### SCO LOCATIONS WORLDWIDE

**CORPORATE OFFICES LINDON, UT**  
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*Please visit [www.SCO.com/worldwide](http://www.SCO.com/worldwide) to see additional SCO locations around the world.*