Software
Product Description

PRODUCT NAME: HP Reliable Transaction Router Version 4.2 for Sun Solaris

DESCRIPTION

HP Reliable Transaction Router (RTR) is fault tolerant transactional messaging middleware used to implement large, distributed applications using client/server technology. This version of Reliable Transaction Router enables enterprises to deploy distributed applications on Sun™ Solaris™ systems.

License Types

Reliable Transaction Router for Sun Solaris has two license types. The Backend license provides full client/router/server functionality. It is required for nodes configured as routers or servers, and can also be used for nodes configured as clients.

Backend Features

- Offers at-most-once semantics for valid transactions. This includes specially flagged transaction replay to a surviving server application, or a later instantiation of that server on the same or a different machine on the virtual network.
- Supports multiple (concurrent) servers as well as multithreaded clients and servers.
- Supports user authentication control (callout servers) with consistent reply in shadow environments.
- Provides disaster protection against site failure by mirroring transactions in shadow-server environments. Automatic resynchronization of shadow pairs after recovery is provided transparently to the application.
- Maintains performance scaling over a wide range of configurations allowing easy horizontal expansion of both hardware systems and application software.
- Enables automatic failover/failback of server applications on multiple backend systems while remaining transparent to client applications executing on remote systems. RTR can maintain application operation in many instances of single or multiple failures in a widely distributed software/hardware configuration.
- Includes system management interfaces for online control of virtual networks from any workstation or terminal with the appropriate privileges. Monitoring of statistics, software and hardware states, and clients and servers is provided from local and remote nodes.
- Uses HP TCP/IP as the underlying network transport. HP DEConet is also supported.

January 2005
HP Reliable Transaction Router Version 4.2 for Sun Solaris

- Enables the operator to manage partitions, providing the ability to:
  - Create or delete a partition with a user-specified name.
  - Define a key range definition.
  - Select a preferred primary node.
  - Select the failover precedence option to choose between local and cross-site shadow failover.
  - Suspend and resume operations to synchronize database backups with transaction flows.
  - Override RTR's automatic recovery decisions to allow manual special recovery procedures.
  - Specify retry limits for problem transactions.

- Enables the operator to selectively inspect, modify the state of, or remove transactions from the journal or the running RTR system.

- Supports anonymous clients, that is, allows clients to be configured with wildcarded node names.

- Supports compression and decompression of broadcast event and transaction reply data to improve network throughput.

- Supports failover between multiple IP addresses for any host machine with multiple network adapters.

**Frontend Features**

- Provides the ability for the client to start transaction branches, where the global transaction may be controlled by RTR.
- Provides the necessary environment to run Reliable Transaction Router client applications under Sun Solaris as part of a Reliable Transaction Router application network (facility).
- Provides client functionality in a production environment.
- Uses TCP/IP as the underlying network transport. DECnet is also supported.
- Supports transactional and broadcast (nontransactional) messages.
- Supports router load balancing in a facility.
- Supports automatic router failover in the event of a communication link failure.
- Supports Reliable Transaction Router system management operations.

**HARDWARE REQUIREMENTS**

Any hardware that supports the Sun Solaris operating system.

**SOFTWARE REQUIREMENTS**

- Sun Solaris Versions 7 or 8.
- TCP/IP as provided by the operating system.

**OPTIONAL SOFTWARE**

- Remote execution software to support system management from remote nodes.
- Microsoft-supported Windows-based browser for system management running on a Windows® PC: Internet Explorer Version 5.01, 5.5, 6.0.

Reliable Transaction Router applications can be written using C and C++ compilers.

- Workshop 6 update 1.

Refer to the optional product's Software Product Description for more information on optional software products, hardware requirements and support.

**GROWTH CONSIDERATIONS**

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

**DISTRIBUTION MEDIA**

The software and documentation for Reliable Transaction Router are available on CD-ROM. The software documentation is also available in hardcopy format.

**ORDERING INFORMATION**

**RTR for Sun Solaris**

Backend Software Licenses: QL-4BVA*-**

Frontend Software Licenses: QL-4BUA*-**

Media and Hardcopy Documentation: QA-4BVAA-H8

Hardcopy Documentation: QA-4BVAA-GZ

For additional information on available licenses, services, and media, refer to the appropriate price book.

* Denotes variant field.
SOFTWARE LICENSING

This software is furnished only under a license. For more information about HP's licensing terms and policies, contact your local HP office.

SOFTWARE PRODUCT SERVICES

A variety of service options are available from HP. For more information, contact your local HP account representative or distributor. Information is also available on www.hp.com/hps/software.

SOFTWARE WARRANTY

This software is provided by HP with a 90 day conformance warranty in accordance with the HP warranty terms applicable to the license purchase.

© 2005 Hewlett-Packard Development Company, L.P.

TRADEMARK INFORMATION

Microsoft, MS-DOS, Windows, and Windows NT are US registered trademarks of Microsoft Corporation. Intel is a US registered trademark of Intel Corporation. UNIX is a registered trademark of The Open Group.

Confidential computer software. Valid license from HP and/or its subsidiaries required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor’s standard commercial license.

Neither HP nor any of its subsidiaries shall be liable for technical or editorial errors or omissions contained herein. The information in this document is provided “as is” without warranty of any kind and is subject to change without notice. The warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty.