

HP Real Time Supply Chain development system

Data sheet



The HP Real Time Supply Chain (RTSC) solution consists of three components: the RTSC Data Manager, supply chain business applications, and supply chain consulting and integration services from HP and its partners.

The foundation of the RTSC solution, the RTSC Data Manager, integrates, collects, cleanses, distributes, and analyzes data from all supply chain applications across the enterprise—whether they number in the tens or hundreds. The system creates a single, up-to-the-second view of data and delivers it in real time to supply chain applications through publish-and-subscribe technology.

The RTSC Data Manager exploits the continuous availability and data integrity of the HP NonStop server to guarantee the delivery of messages and data to and from other applications. The system can scale to support a virtually unlimited number of applications. The NonStop SQL/MX Database enables essential, mixed workload processing for a real-time enterprise environment.

This document describes a development system that represents the minimum system requirements for an RTSC foundation. The information provided herein can be modified to suit your company's specific requirements.

The RTSC foundation layer takes advantage of the services of the open application server products running on the HP NonStop Server platform, providing the NonStop fundamentals of scalability, availability, and fault tolerance to the RTSC components.



Key benefits

- *Reliable*—NonStop servers are designed for continuous availability. In a recent yearly survey, 96 percent of these installed systems had zero downtime.
- *Scalable*—The modular architecture of NonStop S-series servers, which use HP ServerNet Technology, allows you to scale from a two-processor system to a configuration of more than 4,000 processors, with linear performance and no changes to the application.
- *Manageable*—You can manage NonStop servers with industry-standard management tools in a heterogeneous environment.
- *Affordable*—The Standish Group reports that NonStop servers deliver the lowest total cost of ownership of all enterprise-class systems, including UNIX® and Microsoft Windows based servers, Windows NT system clusters, and IBM mainframe servers.
- *Open*—NonStop servers have an open system that runs many industry-standard development and management tools and application environments, including Java™, CORBA, Tuxedo, Microsoft ActiveX, POSIX, Microsoft Visual Studio .NET, XML, UNIX, Simple Object Access Protocol (SOAP), Web services, HTTP, Open Database Connectivity (ODBC), C, C++, COBOL, CA-Unicenter, HP Systems Insight Manager Software, and BMC PATROL. NonStop servers can fully interoperate with Oracle databases and application servers by using Java Database Connectivity (JDBC) and Oracle Application Server software.
- *Flexible*—Applications can be written, tested, debugged, and compiled on a PC or workstation by development staff trained on industry-standard tools.
- *Internet enabled*—NonStop servers are the engine behind many key Internet sites, including the world's largest Internet service provider (ISP) and many Internet-enabled brokerages, travel reservation services, home banking applications, business-to-business applications, and application service providers (ASPs).

Solution description

The RTSC solution, based on the HP Zero Latency Enterprise (ZLE) framework, deploys NonStop servers to simplify the integration of multiple supply chain applications, versions, and data and to deliver a single, up-to-the-second view of the entire supply chain.

Total view of the organization

Many organizations maintain data in separate databases throughout the enterprise. As a result, individuals often cannot find the information they need. The ZLE framework provides an up-to-date, total view of the organization.

Continuous availability

Many companies cannot afford to have their applications unavailable for any reason—not even for maintenance or upgrades. An enterprise's supply chain has become such an application in today's competitive marketplace. NonStop servers are designed for continuous availability.

Scalability

Many businesses demand that their servers handle millions of transactions with no loss of information. NonStop servers are designed for high-volume transaction processing, with bulletproof data integrity. NonStop servers also provide massive scalability, accommodating unpredictable growth in transaction volumes.

Database management

Many companies must maintain huge databases in a way that does not affect customer service, business decisions, or other functions. NonStop SQL/MX Database software provides simultaneous online reorganization, updates, and queries, and it supports very large databases—up to one or more terabytes.

Varied tools

Many businesses must manage existing, disparate computer environments to best deliver service to their customers. These businesses can manage NonStop servers with numerous tools, including HP Systems Insight Manager Software, which provides a common management environment for NonStop, HP 9000, HP Integrity, and HP ProLiant servers.

Open standards

Organizations that are planning to engage in e-commerce need Web servers that are easy to manage and that can integrate a variety of platforms into one centralized access point. NonStop servers are the preferred platform for electronic financial transactions. Their standards-based software can be integrated with other servers.

Many organizations are committed to open standards but need those standards to run on a reliable, scalable platform. NonStop servers provide an implementation of the UNIX or Java environment and fully integrate with other servers running open standards.

Technical specifications

System requirements

Hardware	2-processor NonStop S-series server 4 gigabytes of memory per processor ½-terabyte disk (¼-terabyte mirrored) DAT cartridge
Base software	NonStop Kernel Operating System or Guardian Environment HP Open System Services (OSS) Operating System Environment NonStop SQL/MX Database NonStop Transaction Services/MP (NonStop TS/MP) Software NonStop Server for Java Software HP JToolkit for NonStop servers NonStop SOAP Software Version 3 HP OpenView NonStop Server Management Software HP Web ViewPoint Software

	HP Measure Software
	HP Parallel Library TCP/IP Software
	File Transfer Protocol (FTP)
ISV software	BEA WebLogic Server for NonStop servers (demo copy)
Additional RTSC software	Real Time Information Director (SD30 Version 1)—available as part of a Real Time Supply Chain solution
	Data Model—available as part of a Real Time Supply Chain solution
	SAP XI adapter—if needed
	webMethods adapter—if needed

Ordering and upgrading information

The configuration detailed in the technical specifications is designed to accommodate a small or entry-level RTSC development system with a low transaction rate. A NonStop S76000 Server provides as low an entry-level price as possible, but a NonStop S86000 Server is a reasonably priced alternative.

This configuration can be modified to conform to any organization's needs and specific implementations. For example, a solution might have different communications requirements, resulting in a different number of IP ports or ports with less bandwidth. Also, the amount of disk storage depends on both the volume of data and the length of time historical data will be kept online. Your organization may need more or less storage. The amount of disk storage can significantly affect the total cost of hardware.

Ordering third-party and Controlled Availability components

The RTSC solution requires a Java 2 Platform, Enterprise Edition (J2EE) based application server running on the NonStop server platform. The solution has been tested with BEA WebLogic Server. WebLogic Server must be ordered directly from BEA. A demo version may be available for your development system.

In addition, the RTSC core components will be needed: the Real Time Information Director and the RTSC Data Model. These components are available as part of a Real Time Supply Chain solution. For information on how to obtain these components, contact the product manager, Wil Marshman (wil.marshman@hp.com).

Depending on the architecture of the existing supply chain and the application integration strategy, an SAP XI adapter, a webMethods adapter, or both may be needed. For the SAP XI adapter, HP recommends either the SAP XI Java Message Service (JMS) adapter or the SAP XI File adapter. For webMethods, HP recommends either the webMethods JMS adapter or the webMethods File adapter. These adapters can be ordered through the respective companies.

Note: Detailed documentation on how to install and configure the SAP XI adapters and the webMethods adapters on a NonStop platform are provided as part of the comprehensive supply chain services offering or as part of the professional services involved in delivering the RTSC solution. Contact the product manager, Wil Marshman (wil.marshman@hp.com), for more information.

Education and training

Courseware

A wide variety of NonStop server training classes (<http://h30101.www3.hp.com/us/index.htm>) is available—from *HP NonStop Server Fundamentals* (<http://www.hp.com/education/sections/nonstop.html>) to *Architecture and Tools for the Zero Latency Enterprise* (<http://education.nonstop.compaq.com/us/zle/index.htm>).

Warranty and support

Warranty information

Standard NonStop system warranties apply to this product.

Support information

Standard NonStop support applies to this product.

For more information

For more information about the RTSC solution, visit www.hp.com/go/rtsc. To learn more about NonStop servers, go to www.hp.com/go/nonstop.

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