

HP NonStop AutoSYNC software

Data sheet



Replicates and synchronizes application environments automatically

Features at a glance

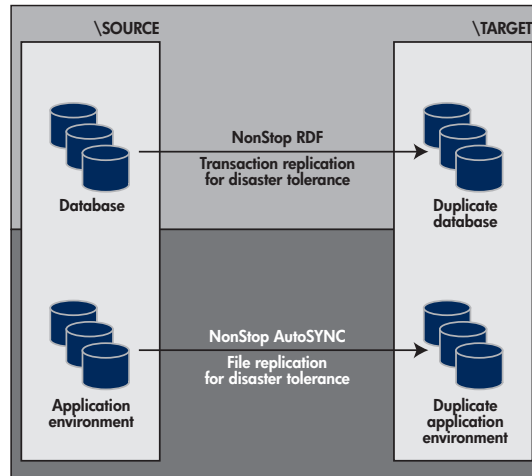
- Supports geographically dispersed application domains
- Automates multisystem software distribution
- Facilitates system migration and upgrades
- Leverages NonStop server fundamentals
- Complements database replication software

Complex application environments depend on the precise coordination of all application and system software elements. HP NonStop AutoSYNC software is designed and built to reduce the effort and minimize the human and system errors associated with management of multiple system environments, including upgrades and migrations.

Real-time replication of databases for geographic dispersal of your applications isn't enough to ensure uninterrupted operations. For seamless, reliable operations, the entire current application environment must be replicated across your NonStop systems.

NonStop AutoSYNC software monitors customer-selected files on a source system. When an updated version becomes available, NonStop AutoSYNC uses whole file replication to enable synchronization with one or more target systems. Virtually all file types are supported.

Figure 1. NonStop AutoSYNC software works in concert with NonStop RDF software to replicate the entire application environment.



Specifically, file types include NonStop SQL tables, audited and nonaudited structured files, and unstructured files such as edit files, Open System Services (OSS) files and directories, and partitioned files. Hence, in a NonStop environment, Pathway control and configuration files, batch files, object/source files, binary large objects (BLOBs), TACL macros, obey files, and other files necessary to start and maintain applications can all be replicated and synchronized.

After initial configuration, the software requires no operator intervention, which makes it easy to use and manage. NonStop AutoSYNC software is completely self-tending and automatically leverages the fault tolerance and parallel processing performance of the NonStop platform.

By itself, NonStop AutoSYNC software supports “lights-out operations” through automatic software distribution and maintenance. When used in concert with HP NonStop Remote Database Facility (NonStop RDF) software, NonStop AutoSYNC enables entire application environments to be replicated for comprehensive wide-area disaster protection.

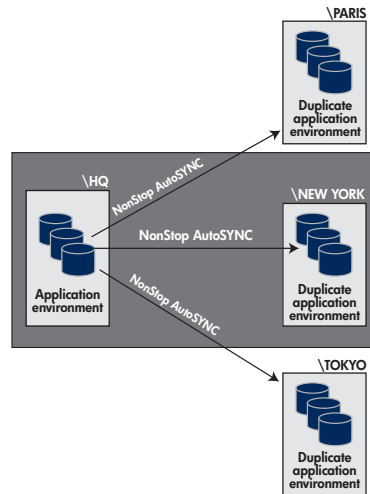
Multisite business continuity

NonStop AutoSYNC software is an important enabler of multinode application environments, as well as multisite business continuity implementations used to protect critical applications against regional disasters. NonStop AutoSYNC rounds out either solution by working in concert with NonStop RDF software (see figure 1).

Takeover operations between sites can be derailed if crucial files are not up to date and synchronized across all systems. NonStop AutoSYNC software’s automated operations ensure that application environment files are up to date and in the right place on the right systems so that backup applications can begin operations immediately. Files can be replicated within a system, to a single target site or to numerous targets, depending on the overall application topology.

And have you thought about a disaster affecting your development system? The loss of even a day’s work can be catastrophic to tight development schedules and programmer productivity. NonStop AutoSYNC can be used to protect the version control environment running on your NonStop system. Consult with your software vendor for its recommended configuration for NonStop AutoSYNC replication.

Figure 2. NonStop AutoSYNC can replicate files within a system or to one or more remote systems.



Multisystem software distribution

As part of your change control program, NonStop AutoSYNC software can provide a set-it-and-forget-it environment to reduce staff effort and the chance of human error.

Whenever a file changes in a source file set, NonStop AutoSYNC can be configured to automatically replicate the updated file to designated destinations across any number of target systems for ongoing synchronization (see figure 2). The software also supports automated staged distribution, manual on-the-fly distribution, and disk-to-disk backups without tape handling. Full compliance with system security ensures that no users have the ability to access or replicate files other than those authorized to them.

System migrations and upgrades

NonStop AutoSYNC software can be used for the initial transfer of an existing system environment to a new system without tape, even while the existing system is running. It can capture an initial snapshot of your databases plus all of the associated application and environment files needed for system startup. During the new system burn-in period, NonStop AutoSYNC can continue to replicate your static files, while NonStop RDF ensures that the database files are ready for cutover to the new system.

In addition to HP Expand networking software, NonStop AutoSYNC supports TCP/IP communications between systems, enabling exact replacement of entire systems for seamless system migrations.

Also useful for system migrations and upgrades is the NonStop AutoSYNC system synchronization Report function. The report lists detailed statistics in any combination, showing all files that are in sync, all files that require synchronization, or files that have been excluded from synchronization by NonStop AutoSYNC at the user's direction. Verifying the synchronization status between systems is now a simple, one-step process.

Operational flexibility

NonStop AutoSYNC software is easy to install and manage and is extremely flexible in its operations. Automatic file replication can be flexibly scheduled, or replication can be invoked manually for ad hoc transfers. Flexible options also exist for controlling file purging and archiving replaced files, and for managing file access security for multiple users.

NonStop AutoSYNC provides very powerful trigger functionality that can be invoked whenever a file is replaced. Triggers can initiate any function or program available from a command line, for example, executing an edit script, compiling a SQL program, or starting a program such as a batch job when a file is replaced.

Scalability and reliability

NonStop AutoSYNC software leverages the scalability, performance, and availability of the NonStop platform. Replication processes run in parallel for scalable performance, and the software takes full advantage of the NonStop architecture to continue replication operations in the event of processor failure or software process faults.

NonStop AutoSYNC software also makes maximum use of available bandwidth between source and remote target systems through the use of data streaming and data compression.

Dedicated services

Companies looking to include NonStop AutoSYNC software in their business continuity or disaster recovery program can turn to HP for complete planning and implementation services. Our consultants are specialists in system implementation and continuity planning. They work with your staff to determine application requirements and make recommendations on system and bandwidth sizes, configurations, and operational aspects of your environment to ensure that service is recovered with minimal downtime.

HP Services, which represents more than a decade's worth of expertise in implementing duplicate online databases, can provide the following support:

- Technical evaluation
- Product training and knowledge transfer
- Implementation planning
- Implementation activities, including testing and documentation

Ordering information

Product ID	SA46V1
Description	NonStop AutoSYNC software

Specifications

System requirements

Hardware	NonStop K-series or S-series server
Software	NonStop Kernel operating system Release Version D38, D39, D42 or later, or Release Version Update G06.03 or later

For more information

For more information, go to www.hp.com/go/nonstopcontinuity.

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5982-3583EN, 02/2004

