

# HP NonStop AutoTMF software

Data sheet



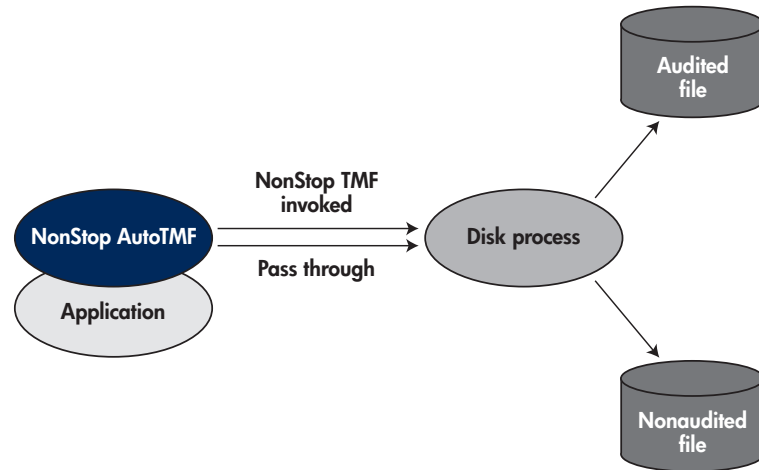
## Automatic transaction protection

### Features at a glance

- Allows applications to transparently invoke NonStop Transaction Management Facility protection
- Improves system and application performance
- Enables the use of NonStop Remote Database Facility software
- Installs in one simple step
- Requires no recompilation or program change
- Performs all necessary transaction activity

HP NonStop Transaction Management Facility (NonStop TMF) software maintains an audit trail that records the before and after images of every database update. This audit trail enables online database backup/replication and automated recovery of corrupted or lost files up to the state of the last committed transaction. But applications not coded to use NonStop TMF software have not been able to take advantage of these features—until now.

Utilizing nonintrusive intercept technology, HP NonStop AutoTMF software provides a method for automatically invoking NonStop TMF transaction protection. This enables most applications running on a NonStop system to access audited Enscribe files without program modification or recompilation. Your application gains virtually all the benefits of programmed usage without the costs and time associated with changing all of your application programs.



## Fault and disaster tolerance

With NonStop AutoTMF software, most applications running on NonStop systems can use NonStop TMF for file and volume recovery even if the applications weren't originally written to use NonStop TMF. In addition, NonStop TMF transaction support enables the use of HP NonStop Remote Database Facility (NonStop RDF) software for near-real-time data replication to a backup database, allowing your applications to continue running even after a total site failure.

NonStop AutoTMF software dynamically determines effective and efficient transaction boundaries and automatically consolidates multiple database updates, ensuring low overhead. There is no need to make any source code changes to programs, or even to recompile them. NonStop AutoTMF works with your existing application object files. NonStop TMF-enabled applications benefit from the performance optimization of audited operations, such as advanced file buffering, and elimination of the block-splitting overhead associated with insertions to a file.

Benchmarks of applications using NonStop AutoTMF software show no reduction in throughput and response time. In fact, in many cases, they show increases in system performance and decreases in response time.

## Incremental migration to NonStop TMF

Normally, converting an application to invoke NonStop TMF protection requires every program that accesses a database file to be converted simultaneously before the file can be audited. However, NonStop AutoTMF software allows incremental migration by providing transactions when required.

Although NonStop AutoTMF automatically enables your database to use NonStop TMF, no automatic method can recognize the true boundaries of your business transactions. By rewriting your application programs to explicitly invoke NonStop TMF protection for business transactions, you can more accurately control transaction boundaries and ensure that business transactions are either completed or backed out as a unit.

Should you explicitly invoke NonStop TMF protection in one or more programs or audit additional files within an application, NonStop AutoTMF software can be configured to provide separate, parallel transactions for the newly audited files or to allow the program to manage the transactions itself.

Implementation of NonStop AutoTMF software is fast and simple. No program alteration, recompilation, or access to source code is required. Object files are enabled for audited file access using a simple (and reversible) operation that can be automatically applied to large numbers of object files (see figure) as part of the change control process.



## Improved application performance, data integrity, and online operation

By enabling your applications to use NonStop TMF software, you can recover from accidental or intentional database modification or deletion. Your application also automatically gains better uptime performance, because audited files can be backed up to disk or tape with zero downtime, and the automated tape catalog minimizes operator error.

Though seemingly a paradox, many applications show higher performance when using NonStop TMF audited files. This is because random file writes are highly buffered, and database block-splitting overhead is completely eliminated. The NonStop TMF audit trail ensures that there is no risk of data loss in the event of a component failure, and NonStop RDF software extends this protection to loss of an entire system due to a site failure.

## Dedicated services

Companies looking to include NonStop AutoTMF software in their business continuity or disaster recovery program can turn to HP for complete planning and implementation services. Our software 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 two decades of expertise in implementing clusters and duplicate online databases, can provide the following support:

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

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### Ordering information

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<b>Product ID</b>	SA45V1
<b>Description</b>	NonStop AutoTMF software

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### Specifications

System requirements

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<b>Hardware</b>	NonStop K-series or S-series server
<b>Software</b>	NonStop Kernel operating system Release Version D45 or later, or Release Version Update G06.14 or later (some features may require later releases)  NonStop Transaction Management Facility (NonStop TMF) software  NonStop Remote Database Facility (NonStop RDF) software (optional)

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## For more information

For more information, go to  
[www.hp.com/go/nonstopcontinuity](http://www.hp.com/go/nonstopcontinuity).

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