

Product Portfolio: NonStop AutoTMF

Many of the earlier applications written for the NonStop platform are not audited by the NonStop Transaction Management Facility (NonStop TMF), and therefore do not include logic to “begin” and “end” transaction boundaries. This makes it impossible for customers to use the NonStop Remote Database Facility (NonStop RDF), or have a reliable transaction log for use with other database replication products as part of their business continuity plan.

NonStop AutoTMF, developed by Carr Scott Software in close collaboration with HP, solves this problem. Using innovative interception technology, AutoTMF watches the programs and automatically begins and ends NonStop TMF transactions on behalf of the program. The result: Fully audited and protected files enable superior disaster recovery, business continuity, and (in many cases) can improve performance.

- Provides automatic TMF transaction protection for programs not programmed with two-phase commit “begin work” and “commit work” transaction logic, using interception technology
 - The runtime component of AutoTMF is implemented as an object-code plug-in, specifically as a DLL or User Library; no source code is used, and no modification or recompiles of programs are required.
 - The AutoTMF plug-in is based on the same interception technology and library used by Escort SQL.
 - AutoTMF works with all supported operating system versions and hardware platforms; it does not require privileged code, SUPER.SUPER access, or ongoing operator intervention.
 - With the object-code plug-in in place, based on configuration options, whenever a program accesses a file that is TMF audited—but the program does not already have an active TMF “begin work” transaction started—AutoTMF will automatically start a TMF transaction for the program.
 - AutoTMF will automatically “commit work” when the application has unlocked its records and encountered one of the logical transaction end states of AutoTMF. The typical AutoTMF transaction involves multiple I/O operations within the transaction.
 - AutoTMF never aborts TMF transactions and universally makes programs more reliable than they were without TMF protection.
 - Added benefits of TMF protection include improved performance through automatic buffering and elimination of block-splitting overhead; a guaranteed log for recovery from accidental deletions; and the only source for guaranteed data capture as a basis for reliable database replication.
 - HP provides worldwide distribution and support for AutoTMF as part of its NonStop business continuity product suite. Contact your HP representative for product evaluation and pricing.

