# VSHARE™

## VSHARE™ gives online and batch programs simultaneous access to the same VSAM file with full data integrity

**VSHARE™ solves the VSAM single-update constraint in a familiar, efficient, and technically sound manner.**

The major constraint in VSAM is the inability for both online and batch programs to update the same VSAM file simultaneously with full data integrity. This single-update constraint has forced companies to design solutions that are too time-consuming, too expensive, or too awkward to maintain:

- Re-develop the application with a database-management system. This solution is timely and expensive.
- Develop CICS transactions to perform batch functions. This results in poor response time for the online system or awkward operational requirements.
- Create shadow databases. This results in high DASD usage and problems with keeping the databases in sync.
- Make the batch program open and close the online files for short periods. This causes online outages and is not really a long-term solution.

**With such a large investment in VSAM, the single-update constraint can no longer be ignored. In today's dynamic business environment, a shared VSAM environment is mandatory.**

- MIS Departments have invested millions of dollars and many thousands of hours in VSAM CICS applications.
- Computer applications are being required to provide longer online availability—many corporate goals include 24/7 online availability.
- Longer online availability leads to higher volumes to be processed in a shrinking batch time frame.
- Applications are so constricted in batch cycle processing that any type of error during a cycle means lost online availability to the end users, resulting in lost revenue and poor service.

**VSHARE™ provides all the functionality required to execute a VSAM system in a multi-programming environment while being easy to install and easy to use.**

- Total transparency
- No source code modifications
- No recompiling of current code
- No need for any system software modifications
- No proprietary address space to support
- All programming languages are supported
- All VSHARE datasets are dynamically allocated
- Easy installation, activation, and deactivation

# VSHARE™

**Before VSHARE™, VSAM's single-update constraint caused many limitations in your VSAM environment.**

| Problems before VSHARE | After VSHARE |
|---|---|
| No 24-hour online availability | Solved! |
| Long batch cycles delays to the next online day | Solved! |
| No batch processing during the online day | Solved! |
| Expensive rewrites to use a DBMS | Solved! |
| Read integrity problems for batch reports | Solved! |
| Double the DASD costs to support shadow databases | Solved! |
| Poor online response from background CICS transactions | Solved! |
| No access to remote files | Solved! |

**VSHARE™ was designed to be a total solution for a VSAM file-sharing environment.**

It possesses four important qualities:

### Full Data Integrity

- Online and batch jobs can update the *same* file simultaneously.
- Full data integrity is provided because all I/O is centralized within CICS.

### Total Transparency

- Except for Tier 3 recovery, no programming changes are necessary.
- No new interface to learn.

### Total Recovery

- VSHARE provides a tiered solution for recovery. All changes are journaled.
- In the event of an ABEND, all the updates are backed out at the field level. In this way, no updates made by other batch or online programs are lost.

### Total Control

- You determine which jobs can use VSHARE.
- VSHARE fits into your current security scheme by interfacing with popular security packages.
- You determine the maximum number of jobs that can simultaneously access a CICS region.
- History of past executions of a monitored job can be viewed online through the VSHARE online system.
- Dynamic control is also provided, allowing you to
  - Suspend a job's execution.
  - Restart a suspended job.
  - Cancel a job.
  - Change the number of I/O requests being sent to CICS by the batch job.

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