

# Fast Mount Cache

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# Fast Mount Cache (FMC) Design

- Designed to support workflows that need caching of recently migrated data.
- Constructed with offline media having fast mount characteristics.
- Enables use of offline media as an intermediate caching tier.
- Volume based caching characteristics.
- Supports rapid cache space recovery upon hitting configured space thresholds.

# Fast Mount Cache (FMC) Workflow

- Define DMF configuration object with '*fastmountcache*' type.
- Define the member VGs of the FMC object and ensure that they are exclusively under its control.
- Ensure that the FMC CACHE\_MEMBERS are placed in the beginning of their Library Server definition.
- Member VGs should set MERGE\_THRESHOLD to zero to prevent merges.
- Create policy to trigger migration to the FMC members and additional target VGs.
- Access to migrated data serviced from one of the cache member VGs.

# FMC Cache Recovery

- Cache recovery management done on a volume basis.
- Cache space management performed using dmmove.
- Entire volumes (with all underlying files) purged from cache on the basis of write access times.
- Admin control provided to enable retention of hot files located in volumes targeted for purging.

# FMC Vs DCM

- FMC does not support downward migrations.
- FMC policy must trigger copy to all VGs during initial migration.
- FMC supports explicit retention of files in the caching layer albeit with a performance penalty.
- FMC cache space management works with entire volumes instead of individual files.
- FMC caching policy is not influenced by recent read accesses of the cached data.

