

11.6.23 Remote Copy states and events

This section describes the various states of a MM/GM relationship and the conditions that cause them to change. In Figure 11-94 shows an overview of the status that can apply to a MM/GM relationship in a connected state.

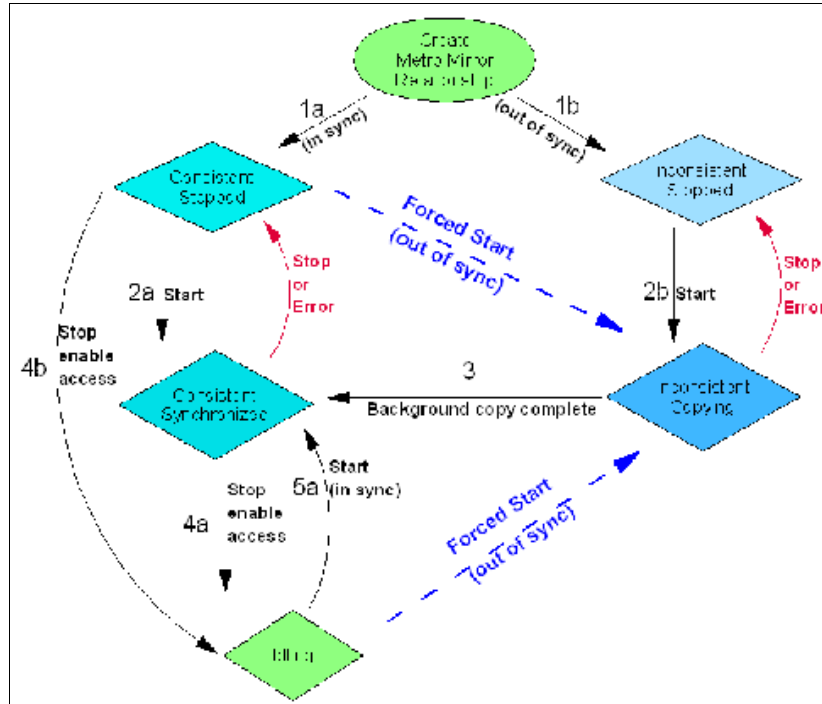


Figure 11-94 Metro Mirror or Global Mirror mapping state diagram

When the MM/GM relationship is created, you can specify whether the auxiliary volume is in sync with the master volume, and the background copy process is then skipped. This capability is useful when MM/GM relationships are established for volumes that were created with the format option.

The following step identifiers are shown in Figure 11-94:

- Step 1:
 - a. The MM/GM relationship is created with the **-sync** option, and the MM/GM relationship enters the ConsistentStopped state.
 - b. The MM/GM relationship is created without specifying that the master and auxiliary volumes are in sync, and the MM/GM relationship enters the InconsistentStopped state.
- Step 2:
 - a. When an MM/GM relationship is started in the ConsistentStopped state, the MM/GM relationship enters the ConsistentSynchronized state. Therefore, no updates (write I/O) were performed on the master volume while in the ConsistentStopped state. Otherwise, the **-force** option must be specified, and the MM/GM relationship then enters the InconsistentCopying state while the background copy is started.
 - b. When an MM/GM relationship is started in the InconsistentStopped state, the MM/GM relationship enters the InconsistentCopying state while the background copy is started.