## 4.3.2 Semaphores

MRAPI semaphores provide shared locking functionality through the use of a counter. When an MRAPI semaphore is created, the maximum number of available locks is specified (in the shared\_lock\_limit parameter). If mrapi\_sem\_lock() is called and all locks are currently locked, then the function will block until a lock is available. It is safer to use mrapi\_sem\_trylock() unless you are certain that the lock will eventually succeed. Otherwise, your thread of execution can block forever waiting for the lock.

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