**MRAPI API Specification V0.9.3**

**4.8.3 MRAPI\_ATOMIC\_HOLD (ABB Extension)**

**NAME**

mrapi\_atomic\_hold

**SYNOPSIS**

mrapi\_boolean\_t mrapi\_atomic\_hold(

MRAPI\_OUT mrapi\_atomic\_barrier\_t\* axb, MRAPI\_IN mrapi\_boolean\_t hold, MRAPI\_OUT mrapi\_status\_t\* status

);

**DESCRIPTION**

mrapi\_atomic\_hold()sets whether barrier or exchange synchronization should persist across atomic operations, for example updating a complex structure before allowing read access by a remote process.

**RETURN VALUE**

The previous hold state for the barrier.

**ERRORS**

|  |  |  |
| --- | --- | --- |
|  | MRAPI\_ERR\_NODE\_NOTINIT | The calling node is not initialized |
|  |  |  |

**NOTE**

Atomic barriers only have effect on non-Windows platforms when the destination process is different than the process executing the atomic operation, making this feature non-portable unless atomic barriers were applied for all platforms.

**SEE ALSO**