4.8.18 MRAPI_ATOMIC_RELEASE (ABB Extension)

NAME

mrapi_atomic_release

SYNOPSIS

```
void mrapi_atomic_release(
   MRAPI_OUT void* sync, MRAPI_IN void* dest,
   MRAPI_IN size_t size, MRAPI_OUT
   mrapi_status_t* status
);
```

DESCRIPTION

mrapi_atomic_release() performs integer exchange for the purposes of implementing an atomic lock. Atomic lock is provided by mrapi_atomic_lock(). The operation is only valid for memory locations within shared memory, where the synchronization can be across real-time processes. The integer value at destination address is written with constant 0. This is an release barrier that does not modify the destination unless it was locked by the same thread. Different integer widths are supported based on the platform. The desired size is passed as input and returned status indicates if the operation succeeded.

RETURN VALUE

None.

ERRORS

MRAPI_ERR_NODE_NOTINIT	The calling node is not initialized
MRAPI_ERR_ATOM_OP_FAILED	The local atomic operation failed

NOTE

Supported integer types:

```
Windows - uint32_t
Unix - uint8_t, uint16_t, uint32_t, uint64_t
```

SEE ALSO