4.8.20 MRAPI_ATOMIC_CLEAR (ABB Extension)

NAME

mrapi_atomic_clear

SYNOPSIS

```
void mrapi_atomic_clear(
   MRAPI_OUT void* sync, MRAPI_IN void* dest,
   MRAPI_IN int bit, MRAPI_OUT int* previous,
   MRAPI_IN size_t size, MRAPI_OUT
   mrapi_status_t* status
);
```

DESCRIPTION

mrapi_atomic_clear()performs atomic bit clear within an integer. Atomic bit set is provided by mrapi_atomic_set(), and atomic bit change is provided by mrapi_atomic_change(). 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 modified to clear the specified bit, indexed from 0, to be 0 and the previous bit value returned if that argument is non-NULL. Different integer widths are supported based on the platform. The desired integer 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 - uint32_t
```

SEE ALSO