4.8.10 MRAPI_ATOMIC_AND (ABB Extension)

NAME

mrapi_atomic_and

SYNOPSIS

```
void mrapi_atomic_and(
   MRAPI_OUT void* sync, MRAPI_IN void* dest,
   MRAPI_IN void* value, MRAPI_OUT void*
   previous, MRAPI_IN size_t size, MRAPI_OUT
   mrapi_status_t* status
);
```

DESCRIPTION

 $\label{eq:mrapi_atomic_and()} $$ mrapi_atomic_or(), and atomic bit-wise intersection. Atomic bit-wise union is provided by $$ mrapi_atomic_or(), and atomic bit-wise exclusive or is provided by $$ mrapi_atomic_xor(). The operation is only valid for memory locations within shared memory, where the synchronization can be across real-time processes. The integer value at destination address is AND'ed with $$value$ and the new integer result returned if that argument is non-NULL. 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 - uint8_t, uint16_t, uint32_t, uint64_t Unix - uint8_t, uint16_t, uint32_t, uint64_t
```

SEE ALSO