4.8.14   MRAPI_ATOMIC_CAS_PTR (ABB Extension)

NAME

mrapi_atomic_cas_ptr

SYNOPSIS
```
void  mrapi_atomic_cas_ptr(
  MRAPI_OUT void* sync, MRAPI_IN uintptr_t*
  dest, MRAPI_IN uintptr_t exchange, MRAPI_IN
  uintptr_t compare, MRAPI_OUT uintptr_t*
  previous, MRAPI_OUT mrapi_status_t* status
);
```

DESCRIPTION

`mrapi_atomic_cas_ptr()`performs atomic pointer compare and swap. Atomic integer compare and swap is provided by `mrapi_atomic_cas()`. The operation is only valid for memory locations within shared memory, where the synchronization can be across real-time processes. The pointer value at destination address is compared with `compare`, and if they match then replaced with `exchange`. The compare and exchange arguments can be NULL, otherwise they must be addresses within the shared memory. The `previous` value is returned if that argument is non-NULL. 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

SEE ALSO