#### 4.4.2.5 MRAPI RMEM GET

#### NAME

mrapi\_rmem\_get

#### **SYNOPSIS**

```
mrapi_rmem_hndl_t mrapi_rmem_get(
   MRAPI_IN mrapi_rmem_id_t rmem_id,
   MRAPI_IN mrapi_rmem_atype_t access_type,
   MRAPI_OUT mrapi_status_t* status
);
```

### **DESCRIPTION**

Given a rmem\_id, this function returns the MRAPI handle referencing to that remote memory segment. access\_type specifies access semantics. Access semantics are per remote memory buffer instance, and are either strict (meaning all clients must use the same access type), or any (meaning that clients may use any type supported by the MRAPI implementation). Implementations may define multiple access types (depending on underlying silicon capabilities), but must provide at minimum: MRAPI\_RMEM\_ATYPE\_ANY (which indicates any semantics), and MRAPI\_RMEM\_ATYPE\_DEFAULT, which has strict semantics Note that MRAPI\_RMEM\_ATYPE\_ANY is only valid for remote memory buffer creation, clients must use MRAPI\_RMEM\_ATYPE\_DEFAULT or another specific type of access mechanism provided by the MRAPI implementation (DMA, etc.) The access type must match the access type that the memory was created with unless the memory was created with the MRAPI\_RMEM\_ATYPE\_ANY type. See Section 3.5.2 for a discussion of remote memory access types.

#### **RETURN VALUE**

On success the remote memory segment handle is returned and \*status is set to MRAPI\_SUCCESS. On error, \*status is set to the appropriate error defined below.

#### **ERRORS**

MRAPI_ERR_RMEM_ID_INVALID	The rmem_id parameter does not refer to a valid remote memory segment or it was called with rmem_id set to MRAPI_RMEM_ID_ANY.
MRAPI_ERR_RMEM_ATYPE_INVALID	Invalid access_type parameter.
MRAPI_ERR_NODE_NOTINIT	The calling node is not initialized.
MRAPI_ERR_DOMAIN_NOTSHARED	This resource can not be shared by this domain.
MRAPI_ERR_RMEM_ATYPE	Type specified on attach is incompatible with type specified on create.

# NOTE

## SEE ALSO

```
mrapi_rmem_set_attribute(),access types: Section 3.5.2
```

Multicore Association August 16, 2010 Page 76