

4.4.1.5 MRAPI_SHMEM_GET

NAME

mrapi_shmem_get

SYNOPSIS

```
mrapi_shmem_hdl_t mrapi_shmem_get(
    MRAPI_IN mrapi_shmem_id_t shmem_id,
    MRAPI_OUT mrapi_status_t* status
);
```

DESCRIPTION

Given a `shmem_id` this function returns the MRAPI handle for referencing that shared memory segment.

RETURN VALUE

On success the shared 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_SHMEM_ID_INVALID	The <code>shmem_id</code> is not a valid shared memory id or it was called with <code>shmem_id</code> set to <code>MRAPI_SHMEM_ID_ANY</code> .
MRAPI_ERR_NODE_NOTINIT	The calling node is not initialized.
MRAPI_ERR_SHM_NODE_NOTSHARED	This shared memory is not shareable with the calling node. Which nodes it is shareable with was specified on the call to <code>mrapi_shmem_create()</code> .
MRAPI_ERR_DOMAIN_NOTSHARED	This resource can not be shared by this domain.

NOTE

Shared memory is the only MRAPI primitive that is always shareable across domains. Which nodes it is shared with is specified in the call to `mrapi_shmem_create()`.

SEE ALSO