

#### 4.3.2.4 MRAPI\_SEM\_GET\_ATTRIBUTE

##### NAME

mrapi\_sem\_get\_attribute

##### SYNOPSIS

```
void mrapi_sem_get_attribute (
    MRAPI_IN mrapi_sem_hdl_t sem,
    MRAPI_IN mrapi_uint_t attribute_num,
    MRAPI_OUT void* attribute,
    MRAPI_IN size_t attribute_size,
    MRAPI_OUT mrapi_status_t* status
);
```

##### DESCRIPTION

Returns the attribute that corresponds to the given `attribute_num` for this semaphore. The attribute may be viewed but may not be changed (for this semaphore).

##### RETURN VALUE

On success `*status` is set to `MRAPI_SUCCESS` and the attribute value is filled in. On error, `*status` is set to the appropriate error defined below and the attribute value is undefined. The attribute identified by the `attribute_num` is returned in the `void* attribute` parameter. When extended error checking is enabled, if this function is called on a semaphore that no longer exists, an `MRAPI_ERR_MUTEX_DELETED` error code will be returned. When extended error checking is disabled, the `MRAPI_ERR_SEM_INVALID` error will be returned.

##### ERRORS

MRAPI_ERR_PARAMETER	Invalid attribute parameter.
MRAPI_ERR_SEM_INVALID	Argument is not a valid semaphore handle.
MRAPI_ERR_ATTR_NUM	Unknown attribute number
MRAPI_ERR_ATTR_SIZE	Incorrect attribute size
MRAPI_ERR_SEM_DELETED	If the semaphore has been deleted then if <code>MRAPI_ERROR_EXT</code> attribute is set, MRAPI will return <code>MRAPI_ERR_SEM_DELETED</code> otherwise MRAPI will just return <code>MRAPI_ERR_SEM_INVALID</code> .
MRAPI_ERR_NODE_NOTINIT	The calling node is not intialized.

##### NOTE

##### SEE ALSO

`mrapi_sem_set_attribute()` for a list of pre-defined attribute numbers.