

#### 4.3.2.3 MRAPI\_SEM\_SET\_ATTRIBUTE

##### NAME

mrapi\_sem\_set\_attribute

##### SYNOPSIS

```
void mrapi_sem_set_attribute(
    MRAPI_OUT mrapi_sem_attributes_t* attributes,
    MRAPI_IN mrapi_uint_t attribute_num,
    MRAPI_IN void* attribute,
    MRAPI_IN size_t attribute_size,
    MRAPI_OUT mrapi_status_t* status
);
```

##### DESCRIPTION

This function is used to change default values of an `mrapi_sem_attributes_t` data structure prior to calling `mrapi_sem_create()`. Calls to this function have no effect on semaphore attributes once the semaphore has been created.

MRAPI pre-defined semaphore attributes:

| Attribute num:      | Description:   | Datatype:       | Default:    |
|---------------------|--|-----------------|-------------|
| MRAPI_ERROR_EXT     | Indicates whether or not this semaphore has extended error checking enabled. | mrapi_boolean_t | MRAPI_FALSE |
| MRAPI_DOMAIN_SHARED | Indicates whether or not this semaphore is shareable across domains.         | mrapi_boolean_t | MRAPI_TRUE  |

##### RETURN VALUE

On success `*status` is set to `MRAPI_SUCCESS`. On error, `*status` is set to the appropriate error defined below.

##### ERRORS

|                         |                                      |
|-------------------------|--------------------------------------|
| MRAPI_ERR_ATTR_READONLY | Attribute can not be modified.       |
| MRAPI_ERR_PARAMETER     | Invalid attribute parameter.         |
| MRAPI_ERR_ATTR_NUM      | Unknown attribute number             |
| MRAPI_ERR_ATTR_SIZE     | Incorrect attribute size             |
| MRAPI_ERR_NODE_NOTINIT  | The calling node is not initialized. |

##### NOTE

##### SEE ALSO