

4.3.3.1 MRAPI_RWL_CREATE

NAME

`mrapi_rwl_create`

SYNOPSIS

```
mrapi_rwl_hdl_t mrapi_rwl_create(  
    MRAPI_IN mrapi_rwl_id_t rwl_id,  
    MRAPI_IN mrapi_rwl_attributes_t* attributes,  
    MRAPI_IN mrapi_uint_t reader_lock_limit,  
    MRAPI_OUT mrapi_status_t* status  
);
```

DESCRIPTION

This function creates a reader/writer lock. Unless you want the defaults, attributes must be set before the call to `mrapi_rwl_create()`. Once a reader/writer lock has been created, its attributes may not be changed. If the attributes are NULL, then implementation defined default attributes will be used. If `rwl_id` is set to `MRAPI_RWL_ID_ANY`, then MRAPI will choose an internal id for you.

RETURN VALUE

On success a reader/writer lock handle is returned and `*status` is set to `MRAPI_SUCCESS`. On error, `*status` is set to the appropriate error defined below. In the case where the reader/writer lock already exists, status will be set to `MRAPI_EXISTS` and the handle returned will not be a valid handle.

ERRORS

<code>MRAPI_ERR_RWL_ID_INVALID</code>	The <code>rwl_id</code> is not a valid reader/writer lock id.
<code>MRAPI_ERR_RWL_EXISTS</code>	This reader/writer lock is already created.
<code>MRAPI_ERR_RWL_LIMIT</code>	Exceeded maximum number of reader/writer locks allowed.
<code>MRAPI_ERR_NODE_NOTINIT</code>	The calling node is not initialized.
<code>MRAPI_ERR_PARAMETER</code>	Invalid attributes parameter.

NOTE

SEE ALSO

See `mrapi_rwl_init_attributes()` and `mrapi_rwl_set_attribute()`.

See datatypes identifiers discussion: Section 3.12.13