4.3.2.8 MRAPI_SEM_TRYLOCK

NAME

mrapi_sem_trylock

SYNOPSIS

```
mrapi_boolean_t mrapi_sem_trylock(
   MRAPI_IN mrapi_sem_hndl_t sem,
   MRAPI_OUT mrapi_status_t* status
);
```

DESCRIPTION

This function attempts to obtain a single lock on the semaphore. If the lock can't be obtained because all the available locks are already locked (by this node and/or others) then the function will immediately return `MRAPI_FALSE and status will be set to MRAPI_SUCCESS`. If the request can't be satisfied for any other reason, then this function will immediately return MRAPI_FALSE and status will be set to the appropriate error code below.

RETURN VALUE

Returns `MRAPI_TRUE` if the lock was acquired, returns `MRAPI_FALSE` otherwise. If there was an error then `*status` will be set to indicate the error from the table below, otherwise `*status` will indicate `MRAPI_SUCCESS`. If the lock could not be obtained then `*status` will be either `MRAPI_ELOCKED` or one of the error conditions in the table below. When extended error checking is enabled, if this function is called on a semaphore that no longer exists, an `MRAPI_ERR_SEM_DELETED` error code will be returned. When extended error checking is disabled, the `MRAPI_ERR_SEM_INVALID` error will be returned.

ERRORS

`MRAPI_ERR_SEM_INVALID`	Argument is not a valid semaphore handle.
`MRAPI_ERR_SEM_DELETED`	If the semaphore has been deleted then if `MRAPI_ERROR_EXT` attribute is set, MRAPI will return `MRAPI_ERR_SEM_DELETED` otherwise MRAPI will just return `MRAPI_ERR_SEM_INVALID`.
`MRAPI_ERR_NODE_NOTINIT`	The calling node is not intialized.

NOTE

SEE ALSO