4.3.2 MCAPI_MSG_SEND

NAME

mcapi_msg_send – sends a (connectionless) message from a send endpoint to a receive endpoint.

SYNOPSIS

```
#include <mcapi.h>

void mcapi_msg_send(
     MCAPI_IN mcapi_endpoint_t  send_endpoint,
     MCAPI_IN mcapi_endpoint_t  receive_endpoint,
     MCAPI_IN void* buffer,
     MCAPI_IN size_t buffer_size,
     MCAPI_IN mcapi_priority_t priority,
     MCAPI_OUT mcapi_status_t* mcapi_status
);
```

DESCRIPTION

Sends a (connectionless) message from a send endpoint to a receive endpoint. It is a blocking function, and returns once the buffer can be reused by the application. send_endpoint is a local endpoint identifying the send endpoint and receive_endpoint identifies a receive endpoint. buffer is the application provided buffer and buffer_size is the buffer size in bytes. priority determines the message priority with a value of 0 being the highest priority. This method will block if there is insufficient memory space available. When sufficient space becomes available, the function will complete. This function cannot be used allowed to send a message to a connected endpoint. Implementations may chose to prevent messages from being sent to connected endpoint or to leave it up to the application to manage this. Functionality for this may be added in a future version of MCAPI in it is therefore recommended that implementations preventing messages from being sent to connected endpoint use MCAPI_ERR_GENERAL to report an error. The behavior should be documented.

RETURN VALUE

On success, *mcapi_status is set to MCAPI_SUCCESS. On error, *mcapi_status is set to the appropriate error defined below. Success means that the entire buffer has been sent.

ERRORS

MCAPI_ERR_NODE_NOTINIT	The node is not initialized.
MCAPI_ERR_ENDP_INVALID	One or both endpoints are invalid.
MCAPI_ERR_MSG_SIZE	The message size exceeds the maximum size allowed by the MCAPI implementation.
MCAPI_ERR_PRIORITY	Incorrect priority level.