

4.3.1 MCAPI_MSG_SEND_I

NAME

`mcapi_msg_send_i` – Sends a (connectionless) message from a send endpoint to a receive endpoint.

SYNOPSIS

```
#include <mcapi.h>

void mcapi_msg_send_i(
    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_request_t* request,
    MCAPI_OUT mcapi_status_t* mcapi_status
);
```

DESCRIPTION

Sends a (connectionless) message from a send endpoint to a receive endpoint. It is a non-blocking function, and returns immediately. `send_endpoint`, is a local endpoint identifying the send endpoint, `receive_endpoint` identifies a receive endpoint. `buffer` is the application provided buffer, `buffer_size` is the buffer size in bytes. `priority` determines the message priority with a value of 0 being the highest priority and `request` is the identifier used to determine if the send operation has completed on the sending endpoint and the buffer can be reused by the application. Furthermore, this method will abandon the send and return `MCAPI_ERR_MEM_LIMIT` if sufficient memory space is not available. This function cannot be used 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` if completed and `MCAPI_PENDING` if not yet completed. On error, `*mcapi_status` is set to the appropriate error defined below.

ERRORS

| | |
|--------------------------------------|--|
| <code>MCAPI_ERR_NODE_NOTINIT</code> | The node is not initialized. |
| <code>MCAPI_ERR_ENDP_INVALID</code> | One or both endpoints are invalid. |
| <code>MCAPI_ERR_MSG_SIZE</code> | The message size exceeds the maximum size allowed by the MCAPI implementation. |
| <code>MCAPI_ERR_REQUEST_LIMIT</code> | No more request handles available. |