4.3.3 MCAPI_MSG_RECV_I

NAME

mcapi_msg_recv_i - receives a (connectionless) message from a receive endpoint.

SYNOPSIS

```
#include <mcapi.h>

void mcapi_msg_recv_i(
    MCAPI_IN mcapi_endpoint_t receive_endpoint,
    MCAPI_OUT void* buffer,
    MCAPI_IN size_t buffer_size,
    MCAPI_OUT mcapi_request_t* request,
    MCAPI_OUT mcapi_status_t* mcapi_status);
```

DESCRIPTION

Receives a (connectionless) message from a receive endpoint. It is a non-blocking function, and returns immediately. receive_endpoint is a local endpoint identifying the receive endpoint. buffer is the application provided buffer, and buffer_size is the buffer size in bytes. request is the identifier used to determine if the receive operation has completed (all the data is in the buffer). Furthermore, this method will abandon the receive and return MCAPI_ERR_MEM_LIMIT if the system cannot either wait for sufficient memory to become available or allocate enough memory.

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

MCAPI_ERR_NODE_NOTINIT	The node is not initialized.
MCAPI_ERR_ENDP_INVALID	Argument is not a valid local endpoint descriptor.
MCAPI_ERR_MSG_TRUNCATED	The message size exceeds the buffer_size.
MCAPI_ERR_TRANSMISSION	Transmission failure. This error code is optional, and if supported by an implementation, its functionality shall be described.
MCAPI_ERR_REQUEST_LIMIT	No more request handles available.
MCAPI_ERR_MEM_LIMIT	No memory available.
MCAPI_ERR_PARAMETER	Incorrect buffer and/or request parameter.