

4.4.4 MCAPI\_PKTCHAN\_SEND\_I

NAME

mcapi\_pktchan\_send\_i – sends a (connected) packet on a channel.

SYNOPSIS

```
#include <mcapi.h>

void mcapi_pktchan_send_i(
    MCAPI_IN mcapi_pktchan_send_hdl_t send_handle,
    MCAPI_IN void* buffer,
    MCAPI_IN size_t size,
    MCAPI_OUT mcapi_request_t* request,
    MCAPI_OUT mcapi_status_t* mcapi_status
);
```

DESCRIPTION

Sends a packet on a connected channel. It is a non-blocking function, and returns immediately. *buffer* is the application provided buffer and *size* is the buffer size. *request* is the identifier used to determine if the send operation has completed on the sending endpoint and the buffer can be reused. While this method returns immediately, data transfer will not complete until the packet has been transmitted. The definition of transmission in this context is implementation defined and may include blocking until the send buffer is available for reuse. Alternatively the buffer's availability for reuse can be tested with the `mcapi_pktchan_release_test()` function. The behavior must be documented by the implementation. Furthermore, this method will abandon the send 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_CHAN_INVALID	Argument is not a valid channel handle.
MCAPI_ERR_PKT_SIZE	The packet size exceeds the maximum size allowed by the MCAPI implementation.
MCAPI_ERR_REQUEST_LIMIT	No more request handles available.
MCAPI_ERR_MEM_LIMIT	No memory available.
MCAPI_ERR_TRANSMISSION	Transmission failure. This error code is optional, and if supported by an implementation, its functionality shall be described.