4.4.5 MCAPI_PKTCHAN_SEND

NAME

`mcapi_pktchan_send` – sends a (connected) packet on a channel.

SYNOPSIS

```
#include <mcapi.h>

void mcapi_pktchan_send(
     MCAPI_IN mcapi_pktchan_send_hndl_t send_handle,
     MCAPI_IN void* buffer,
     MCAPI_IN size_t size,
     MCAPI_OUT mcapi_status_t* mcapi_status
);
```

DESCRIPTION

Sends a packet on a connected channel. This method will block 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. `send_handle` is the local send handle which represents the send endpoint associated with the channel. `buffer` is the application provided buffer and `size` is the buffer size. Since channels behave like FIFOs, by default this method will block if the packet can't be transmitted because of lack of memory space. When sufficient space becomes available, the function will complete. By default this method will block if there is insufficient memory space available. When sufficient space becomes available, the function will complete.

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_CHAN_INVALID`	Argument is not a valid channel handle.
`MCAPI_ERR_PKT_SIZE`	The message size exceeds the maximum size allowed by the MCAPI implementation.
`MCAPI_ERR_TRANSMISSION`	Transmission failure. This error code is optional, and if supported by an implementation, its functionality shall be described.
`MCAPI_ERR_PARAMETER`	Incorrect buffer (applies if buffer = 0 and buffer_size > 0) parameter.