4.5.2 MCAPI_SCLCHAN_RECV_OPEN_I

NAME

`mcapi_sclchan_recv_open_i` – Creates a typed, local representation of a scalar channel.

SYNOPSIS

```
#include <mcapi.h>

void mcapi_sclchan_recv_open_i(
        MCAPI_OUT mcapi_sclchan_recv_hndl_t* receive_handle,
        MCAPI_IN mcapi_endpoint_t receive_endpoint,
        MCAPI_OUT mcapi_request_t* request,
        MCAPI_OUT mcapi_status_t* mcapi_status
);
```

DESCRIPTION

Opens the receive end of a scalar channel. It also provides synchronization for channel creation between two endpoints. The corresponding calls are required on both sides to synchronize the endpoints. It is a non-blocking function, and the `recv_handle` is filled in upon successful completion. No specific ordering of calls between sender and receiver is required since the call is non-blocking. `receive_endpoint` is the local endpoint identifier. The call returns a local handle for the connected channel. An endpoint with a previously open channel can't be opened until the previous channel is disconnected (implies both sides closed).

RETURN VALUE

On success, meaning that both sides of the channel are successfully open, `*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 an endpoint descriptor. A remote enpoint is also invalid for this function.
`MCAPI_ERR_CHAN_TYPE`	Attempt to open a packet channel on an endpoint that has been connected with a different channel type.
`MCAPI_ERR_CHAN_DIRECTION`	Attempt to open a send handle on a port that was connected as a receiver, or vice versa.
`MCAPI_ERR_CHAN_OPENPENDING`	An open request is pending.