

4.3.5 MCAPI_MSG_AVAILABLE

NAME

`mcapi_msg_available` – checks if messages are available on a receive endpoint.

SYNOPSIS

```
#include <mcapi.h>

mcapi_uint_t mcapi_msg_available(
    MCAPI_IN mcapi_endpoint_t receive_endpoint,
    MCAPI_OUT mcapi_status_t* mcapi_status
);
```

DESCRIPTION

Checks if messages are available on a local receive endpoint. The function returns in a timely fashion. The number of “available” incoming messages is defined as the number of `mcapi_msg_rcv()` operations that are guaranteed to not block waiting for incoming data. `receive_endpoint` is a local identifier for the receive endpoint. The call only checks the availability of messages and does not dequeue them. `mcapi_msg_available()` can only be used to check availability on endpoints on the node local to the caller.

RETURN VALUE

On success, the number of available messages is returned and `*mcapi_status` is set to `MCAPI_SUCCESS`. On error, `MCAPI_NULL` (or 0) is returned and `*mcapi_status` is set to the appropriate error defined below. `MCAPI_NULL` (or 0) could be a valid number of available messages, so status has to be checked to ensure correctness.

ERRORS

<code>MCAPI_ERR_NODE_NOTINIT</code>	The node is not initialized.
<code>MCAPI_ERR_ENDP_INVALID</code>	Argument is not a valid local endpoint descriptor.
<code>MCAPI_ERR_GENERAL</code>	Implementation specific error not covered by other status codes. Specifics must be documented.

NOTE

The status code must be checked to distinguish between no messages and an error condition.