

4.2.6 MCAPI_ENDPOINT_SET_ATTRIBUTE

NAME

`mcapi_endpoint_set_attribute` - Set endpoint attributes.

SYNOPSIS

```
#include <mcapi.h>

void mcapi_endpoint_set_attribute( MCAPI_IN
    mcapi_endpoint_t endpoint, MCAPI_IN
    mcapi_uint_t attribute_num, MCAPI_IN
    const void* attribute, MCAPI_IN size_t
    attribute_size, MCAPI_OUT
    mcapi_status_t* mcapi_status
);
```

DESCRIPTION

`mcapi_endpoint_set_attribute()` allows the programmer to assign endpoint attributes on the local node. `attribute_num` indicates which one of the endpoint attributes is being referenced. `attribute` points to a structure or scalar to be filled with the value of the attribute specified by `attribute_num`. `attribute_size` is the size in bytes of the memory pointed to by `attribute`. See Section 3.33.3 and `mcapi.h` for a description of attributes. Endpoint attributes can be set only on the local node.

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It is an error to attempt a connection between endpoints whose attributes are set in an incompatible way (whether attributes are compatible or not is implementation defined). It is also an error to attempt to change the attributes of endpoints that are connected.

RETURN VALUE

On success, `*mcapi_status` is set to `MCAPI_SUCCESS`. On error, `*mcapi_status` is set to the appropriate error defined below.

ATTRIBUTES

`mcapi_endp_attr_max_payload_size_t`

This attribute defines the maximum payload size. This is a channel compatibility attribute, meaning that a channel connection requires that this attribute value is the same for both channel endpoints. Default value is implementation defined.

`mcapi_endp_attr_buffer_type_t`

This attribute defines the endpoint buffer type. FIFO means that the order of transmission is preserved for channels and FIFO per priority level for messages. STATE means that the order of transmission is non-deterministic with the current value transmitted when requested. This is a channel compatibility attribute, meaning that a channel connection requires that this attribute value is the same for both channel endpoints. Default value is implementation defined.

Buffer types: `MCAPI_ENDP_ATTR_FIFO_BUFFER` Default
Buffer types: `MCAPI_ENDP_ATTR_STATE_BUFFER` ABB Extension

`mcapi_endp_attr_memory_type_t`

This attribute defines the memory type both the memory's locality, local, shared and remote. This is a channel compatibility attribute, meaning that a channel connection requires that this attribute value is the same for both channel endpoints.