

**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 3.3~~3.3~~ and mcapi.h for a description of attributes. Endpoint attributes can be set only on the local node.

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.

MCAPI API Specification V2.000 ➦ Multicore Association ➦ October xx, 2010 Page 51 of 150

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