4.1.7 MCAPI_NODE_GET_ATTRIBUTE

NAME

`mcapi_node_get_attribute` – Get node attributes from a remote node.

SYNOPSIS

```
#include <mcapi.h>

void mcapi_node_get_attribute(
   MCAPI_IN mcapi_domain_t domain_id,
   MCAPI_IN mcapi_node_t node_id,
   MCAPI_IN mcapi_uint_t attribute_num,
   MCAPI_OUT void* attribute,
   MCAPI_IN size_t attribute_size,
   MCAPI_OUT mcapi_status_t* mcapi_status

);
```

DESCRIPTION

`mcapi_node_get_attribute()` allows the application to query other nodes about their attributes, e.g. type of node, characteristics, etc. `domain_id` and `node_id` specifiy the node being queried, `attribute_num` indicates which one of the node attributes is being referenced. This is a blocking function. `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 attribute. See Section 3.2 and header files for a description of attributes. The `mcapi_node_get_attribute()` function returns the requested attribute value by reference.

MCAPI node attributes:

Attribute num:	Description:	Data type:	Default:
MCAPI_NODE_ATTR_TYPE	Indicates the node type.	mcapi_uint_t	MCAPI_NODE_ATTR_TYPE_REGULAR

RETURN VALUE

On success, *attribute is filled with the requested attribute and *`mcapi_status` is set to `MCAPI_SUCCESS`. On error, *`mcapi_status` is set to an error code and *`attribute` is not modified.

ERRORS

MCAPI_ERR_NODE_NOTINIT	The local node is not initialized.
MCAPI_ERR_DOMAIN_INVALID	The parameter is not a valid domain.