**4.1.10 MCAPI\_NODE\_COLLECT (ABB Extension)**

**NAME**

mcapi\_node\_collect – Accept and validate message topology.

**SYNOPSIS**

#include <mcapi\_abb.h>

void mcapi\_node\_collect( MCAPI\_IN mcapi\_domain\_t domain\_id, MCAPI\_IN mcapi\_node\_t node\_id, MCAPI\_IN mxml\_node\_t\* root, MCAPI\_OUT mcapi\_config\_t\* config, MCAPI\_IN mca\_timeout\_t timeout, MCAPI\_OUT mcapi\_status\_t\* mcapi\_status

);

**DESCRIPTION**

mcapi\_node\_collect() parses the endpoints, channels and links based on XML configuration and waits for the remote endpoints to be initialized. The MCAPI node must be already initialized corresponding to domain\_id and node\_id. The XML configuration must be parsed before the call to mcapi\_collect by the mxml library and the resulting DOM is passed as root. The configuration for this MCAPI node is stored in the memory pointed to by config, selecting only the parts that pertain to this node either as a source or destination endpoint. The config storage is used by mcapi\_node\_connect to create the endpoints and connect the channels, and should be preserved in order to perform an orderly disconnect with mcapi\_node\_disconnect when the MCAPI node is run down. The mcapi\_collect routine waits for the remote endpoints to be allocated, and returns with an status error if

the timeout is exceeded.

**RETURN VALUE**

On success, \*mcapi\_status is set to MCAPI\_SUCCESS. On error, \*mcapi\_status is set to the appropriate error code defined below.

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| **ERRORS** |  |  |
| MCAPI\_TIMEOUT | The MCAPI remote endpoints were not allocated in the specified time limit. |  |
| MCAPI\_ERR\_NODE\_INVALID | The parameter is not a valid node | |
| MCAPI\_ERR\_NODE\_CONFFAILED | The node endpoints or channels could not be configured | |
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