4.6.1 MRAPI_RESOURCES_GET

NAME

mrapi_resources_get

SYNOPSIS

```
mrapi_resource_t* mrapi_resources_get(
   MRAPI_IN mrapi_rsrc_filter_t subsystem_filter,
   MRAPI_OUT mrapi_status_t* status
);
```

DESCRIPTION

mrapi_resources_get() returns a tree of system resources available to the calling node, at the point in time when it is called (this is dynamic in nature). mrapi_resource_get_attribute() can be used to make a specific query of an attribute of a specific system resource. subsystem_filter is an enumerated type that is used as a filter indicating the scope of the desired information MRAPI returns. See Section 3.6.1 for a description of how to navigate the resource tree as well as section 6.1 for an example use case.

The valid subsystem filters are:
   MRAPI_RSRC_MEM, MRAPI_RSRC_CACHE, MRAPI_RSRC_CPU

RETURN VALUE

On success, returns a pointer to the root of a tree structure containing the available system resources, and *status is set to MRAPI_SUCCESS. On error, MRAPI_NULL is returned and *status is set to the appropriate error defined below. The memory associated with the data structures returned by this function is system managed and must be released via a call to mrapi_resource_tree_free().

ERRORS

MRAPI_ERR_RSRC_INVALID_SUBSYSTEM	Argument is not a valid subsystem_filter value.
MRAPI_ERR_NODE_NOTINIT	The calling node is not intialized.

NOTE

SEE ALSO

mrapi_resource_get_attribute(), Section 3.6.1 and Section 3.12.4