4.6.6 MRAPI_RESOURCE_ REGISTER_CALLBACK

NAME

mrapi_resource_ register_callback

SYNOPSIS

```
void mrapi_resource_register_callback(
    MRAPI_IN mrapi_event_t event,
    MRAPI_IN unsigned int frequency,
    MRAPI_IN void (*callback_function) (mrapi_event_t event),
    MRAPI_OUT mrapi_status_t* status
);
```

DESCRIPTION

mrapi_register_callback() registers an application-defined function to be called when a specific system event occurs. The set of available events is implementation defined. Some implementations may choose not to define any events and thus not to support this functionality. The frequency parameter is used to indicate the reporting frequency for which an event should trigger the callback (frequency is specified in terms of number of event occurrences, e.g., callback on every nth occurrence where n=frequency). An example usage of

mrapi_register_callback() could be for notification when the core experiences a power management event so that the application can determine the cause (manual or automatic) and/or the level (nap, sleep, or doze, etc.), and use this information to adjust resource usages.

RETURN VALUE

On success, the callback_function() will be registered for the event, and *status is set to MRAPI_SUCCESS. On error, *status is set to the appropriate error defined below.

ERRORS

MRAPI_ERR_RSRC_INVALID_EVENT	Invalid event
MRAPI_ERR_RSRC_INVALID_CALLBACK	Invalid callback function
MRAPI_ERR_NODE_NOTINIT	The calling node is not intialized.

NOTE

SEE ALSO