## OmegaESP32Services

v0.1

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# OmegaESP32Services

This is a collection of software abstractions cannot be categorize as drivers (CoreDrivers, PeripheralDrivers) such as Hashing Operations, Fie System managers, System time (NTP servers).

Speed optimized prebuilt version is available <a href="here">here</a>. feel free to check it out report bug and issues for that repo. License agreement for open source version is available on that repo.

document pdf

# **Class Index**

## 2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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OmegaFileSystemController_t	
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HashController instance that needs to be provided to use the Controller	8

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## **Class Documentation**

## 4.1 OmegaFileData\_t Struct Reference

Used to store information about, read bytes, read number of bytes, written bytes and file handle.

```
#include <OmegaFileSystemController.h>
```

## **Public Attributes**

- uint8\_t \* in\_out\_buffer
  - pointer to the file content that needs to be written or read
- size\_t buffer\_size

size of the in\_out\_buffer

• size\_t read\_written\_size

size that was written or read

FileHandle file\_handle

file handle that is related to the file system operation

## 4.1.1 Detailed Description

Used to store information about, read bytes, read number of bytes, written bytes and file handle.

The documentation for this struct was generated from the following file:

• OmegaFileSystemController.h

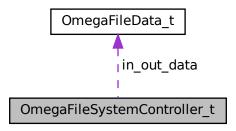
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## 4.2 OmegaFileSystemController\_t Struct Reference

FileSystemController instance that needs to be provided to use the controller API.

#include <OmegaFileSystemController.h>

Collaboration diagram for OmegaFileSystemController\_t:



#### **Public Attributes**

OmegaFileData\_t in\_out\_data
 instance of OmegaFileData\_t which will be used to store results of FileSystem Operations

## 4.2.1 Detailed Description

FileSystemController instance that needs to be provided to use the controller API.

The documentation for this struct was generated from the following file:

· OmegaFileSystemController.h

## 4.3 OmegaHashController\_t Struct Reference

HashController instance that needs to be provided to use the Controller.

#include <OmegaHashController.h>

## **Public Attributes**

mbedtls\_md\_context\_t ctx
 mbedtls context that will be used by the internal APIs to ingest and digest incoming data and/or data streams

## 4.3.1 Detailed Description

HashController instance that needs to be provided to use the Controller.

The documentation for this struct was generated from the following file:

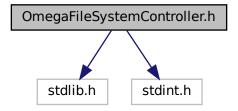
· OmegaHashController.h

## **File Documentation**

## 5.1 OmegaFileSystemController.h File Reference

```
#include <stdlib.h>
#include <stdint.h>
Include dependency graph for Omega File System Co.
```

Include dependency graph for OmegaFileSystemController.h:



## Classes

struct OmegaFileData\_t

Used to store information about, read bytes, read number of bytes, written bytes and file handle.

struct OmegaFileSystemController\_t

FileSystemController instance that needs to be provided to use the controller API.

## **Typedefs**

• typedef uint64\_t FileHandle

FileHandle that needs to be used to operate using FileSystemController.

#### **Enumerations**

enum FileSystemControllerStatus {
 FSC\_SUCCESS, FSC\_FAILED, FSC\_NOT\_INIT, FSC\_INVALID\_OPENMODE,
 FSC\_INVALID\_PARAMETERS, FSC\_FILE\_NOT\_EXIST, FSC\_FILE\_HANDLE\_NOT\_EXIST, FSC\_NO\_MEM,
 FSC\_INCOMPLETE\_FILE\_WRITE, FSC\_END\_OF\_FILE, FSC\_FILE\_ALREADY\_OPENED, FSC\_UNKNOWN
 }

ReturnTypes/StatusCodes for the File System Controller.

enum FileSystemOpenMode { READING = 1 << 0, WRITING = 1 << 1, APPEND = 1 << 2, OVERWRITE = 1 << 3 }</li>

FileSystemOpenMode(s) that needs to be specified when calling OmegaFileSystemController\_open\_file()

enum FileSystemReadMode { READ\_LINE, READ\_CHUNK, READ\_ALL }

 $\textit{ReadMode(s) that needs to be specified when calling } \textit{OmegaFileSystemController\_read\_file()}$ 

## **Functions**

- FileSystemControllerStatus OmegaFileSystemController\_init (OmegaFileSystemController\_t \*in\_controller)

  Initialize and allocate required memory for the FileSystemController.
- FileSystemControllerStatus OmegaFileSystemController\_deinit (OmegaFileSystemController\_t \*in\_← controller)

 $\textit{Used to free and deallocate all the resources that were allocated by \textit{OmegaFileSystemController\_init()} \\$ 

FileSystemControllerStatus OmegaFileSystemController\_open\_file (OmegaFileSystemController\_t \*in\_←
controller, const FileHandle \*in\_file\_handle, const char \*in\_file\_name, FileSystemOpenMode in\_open\_←
mode)

Used to open a file.

FileSystemControllerStatus OmegaFileSystemController\_close\_file (OmegaFileSystemController\_t \*in\_← controller, const FileHandle in\_file\_handle)

Used to close a previously opened file.

• FileSystemControllerStatus OmegaFileSystemController\_read\_file (OmegaFileSystemController\_t \*in\_controller, const FileHandle in file handle, FileSystemReadMode in read mode, size t in size to read)

Read from a previously opened file. Can be used on the same file multiple times depending on the  $FileSystem \leftarrow ReadMode i.e. READ\_LINE,READ\_CHUNK$ .

• FileSystemControllerStatus OmegaFileSystemController\_write\_file (OmegaFileSystemController\_t \*in\_← controller, const FileHandle in\_file\_handle, const uint8\_t \*in\_buffer, const size\_t in\_size\_to\_write)

Write a previously opened file.

## 5.1.1 Detailed Description

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Chameera Subasinghe

Date

Friday, 1st March 2024 2:28:17 am

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## 5.1.2 Enumeration Type Documentation

## 5.1.2.1 FileSystemControllerStatus

enum FileSystemControllerStatus

ReturnTypes/StatusCodes for the File System Controller.

### Enumerator

FSC_SUCCESS	Indicates success in any operation related to FileSystemController.
FSC_FAILED	Indicates failure in any operation related to FileSystemController.
FSC_NOT_INIT	Indicate failure due to FileSystemController functions are being called
	<pre>before OmegaFileSystemController_init()</pre>
FSC_INVALID_OPENMODE	Indicates API misuse of using invalid FileSystemOpenMode in
	OmegaFileSystemController_open_file()
FSC_INVALID_PARAMETERS	Indicates failure fir to invalid parameters.
FSC_FILE_NOT_EXIST	Indicates a failure "File Not existing on the file system" when calling
	OmegaFileSystemController_open_file() with READING
	only.
FSC_FILE_HANDLE_NOT_EXIST	Indicates a API misuse of invalid parameter of type FileHandle being
	received to functions.
FSC_NO_MEM	Indicates failure due to not having enough heap memory needed to
	allocate for the operation.
FSC_INCOMPLETE_FILE_WRITE	Indicates a failure during file writing operation. All the content were no
	written to the file.
FSC_END_OF_FILE	Indicates the end of file reading a file.
FSC_FILE_ALREADY_OPENED	//!TODO: Implement the usage of this inside
	OmegaFileSystemController_open_file()
FSC_UNKNOWN	Indicates an unknown error.

### 5.1.2.2 FileSystemOpenMode

enum FileSystemOpenMode

FileSystemOpenMode(s) that needs to be specified when calling OmegaFileSystemController\_open\_file()

## Enumerator

READING	dsfs
WRITING	sdfs
APPEND	sdfsd
OVERWRITE	sdfsd

## 5.1.2.3 FileSystemReadMode

```
enum FileSystemReadMode
```

ReadMode(s) that needs to be specified when calling OmegaFileSystemController\_read\_file()

#### Enumerator

READ_LINE	Reads set of characters till ' ' including the ' '. If EOF (End Of File) met just the content upto EOF is read.
READ_CHUNK	Read only pre-specified number of bytes.
READ_ALL	Read the whole file in 1 go.

## 5.1.3 Function Documentation

### 5.1.3.1 OmegaFileSystemController\_close\_file()

```
\label{lem:controller} File System Controller Status OmegaFile System Controller_t * in\_controller, \\ const File Handle in\_file\_handle)
```

Used to close a previously opened file.

## Parameters

in_controller	Input parameter. Pointer to an instance of OmegaFileSystemController_t that needs to be used to open up the file. Cannot be NULL.
in_file_handle	Input parameter. Instance of FileHandle which were used to open a file using OmegaFileSystemController_open_file(). Cannot be NULL.

## Returns

FileSystemControllerStatus FSC\_SUCCESS if the file closed successfully

## 5.1.3.2 OmegaFileSystemController\_deinit()

 $\label{thm:controller_init} \textbf{Used to free and deallocate all the resources that were allocated by \verb|OmegaFileSystemController_init()| } \\$ 

#### **Parameters**

in_controller	Input parameter. Pointer to an instance of OmegaFileSystemController_t that needs
	to be de-initialized. Cannot be NULL.

### Returns

FileSystemControllerStatus FSC\_SUCCESS if the freeing of resources was successful

## 5.1.3.3 OmegaFileSystemController\_init()

```
\label{lem:controller} File System Controller Status Omega File System Controller \_init ( \\ Omega File System Controller \_t * in\_controller )
```

Initialize and allocate required memory for the FileSystemController.

#### **Parameters**

in_controller	Input Parameter. Pointer to an instance of OmegaFileSystemController_t that needs
	to be initialized. Cannot be NULL

#### Returns

 $\label{lem:controllerStatus} FSC\_SUCCESS \ if \ {\tt OmegaFileSystemController\_t} \ initialized \ successfully$ 

### 5.1.3.4 OmegaFileSystemController\_open\_file()

Used to open a file.

## **Parameters**

in_controller	Input parameter. Pointer to an instance of <code>OmegaSystemController_t</code> that needs to be used to open up the file. Cannot be <code>NULL</code> . Prior to calling this function <code>OmegaFileSystemController_init()</code> needs to be called on this parameter
in_file_handle	Input parameter. Pointer to an instance of FileHandle. FileHandle needs to be used to do file operations (Read, Write,). Cannot be NULL.
in_file_name	Input parameter. Path of the file that needs to be opened with the filename and the extention of the file.
in_open_mode	Input parameter. Enumaration of type FileSystemOpenMode. Please see the brief of
	FileSystemOpenMode

#### Returns

FileSystemControllerStatus FSC\_SUCCESS if the file opened successfully

## 5.1.3.5 OmegaFileSystemController\_read\_file()

Read from a previously opened file. Can be used on the same file multiple times depending on the  $FileSystem \leftarrow ReadMode i.e. READ\_LINE,READ\_CHUNK$ .

#### **Parameters**

in_controller	Input parameter. Pointer to an instance of OmegaFileSystemController_t that needs to be used to read the file. Cannot be NULL.	
in_file_handle	Input parameter. Instance of FileHandle which were used to open a file using	
	OmegaFileSystemController_open_file(). Cannot be NULL.	
in_read_mode	Input parameter. Enumaration of type FileSystemReadMode that will help to use the API flexibly. i.e. read the whole file, read till a new line is found, read a predefined amount of bytes	
in_size_to_read	Input parameter. If the in_read_mode is READ_CHUNK then this parameter is used to read that amount of bytes from the file, else this can be NULL, 0 or negative	

#### Returns

FileSystemControllerStatus FSC\_SUCCESS if the file read successfully

## 5.1.3.6 OmegaFileSystemController\_write\_file()

Write a previously opened file.

#### **Parameters**

in_controller	Input parameter. Pointer to an instance of OmegaFileSystemController_t that needs to be used to write the file. Cannot be NULL.	
in_file_handle	Input parameter. Instance of FileHandle which were used to open a file using OmegaFileSystemController_open_file(). Cannot be NULL.	
in_buffer	Input parameter. Content of this will be used to write the file. Cannot be NULL	
_in_size_to_write	Input parameter. Amount of bytes that needs to be written from the in_buffer. Should be less or equal to the size of in_buffer Generated by Doxygen	

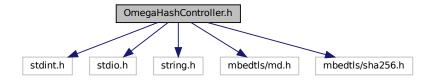
Returns

FileSystemControllerStatus FSC\_SUCCESS if the filw written successfully

## 5.2 OmegaHashController.h File Reference

```
#include <stdint.h>
#include <stdio.h>
#include <string.h>
#include <mbedtls/md.h>
#include <mbedtls/sha256.h>
```

Include dependency graph for OmegaHashController.h:



#### Classes

struct OmegaHashController\_t

HashController instance that needs to be provided to use the Controller.

#### **Enumerations**

enum HashControllerStatus {
 HSC\_SUCCESS, HSC\_FAILED, HSC\_INVALID\_PARAMETERS, HSC\_HASH\_ALGO\_NOT\_FOUND,
 HSC\_HASH\_ALGO\_NOT\_SUPPORTED, HSC\_NO\_MEM, HSC\_UNKNOWN }

ReturnTypes/StatusCodes for the Hash Controller.

enum HashAlgorithm { HASH256 }

Hash Algorithms that are supported by Hash Controller.

#### **Functions**

HashControllerStatus OmegaHashController\_init (OmegaHashController\_t \*in\_controller, HashAlgorithm in\_hash\_algorithm)

Initialize and allocate required memory for the specified hash algorithm for the HashController instance.

HashControllerStatus OmegaHashController reset (OmegaHashController t \*in controller)

After a successful OmegaHashController\_ingest\_data\_streamed () hashing operation, OmegaHashController\_t needs to be reset before doing another hash operation. Purpose of this function is to reset all the internal variables, free old memory and allocate new memory. This function isn't required to be called if the hash operation was OmegaHashController\_ingest\_data\_single(). This function will be called internally in OmegaHashController\_ingest\_data\_single()

HashControllerStatus OmegaHashController\_ingest\_data\_single (OmegaHashController\_t \*in\_controller, const uint8\_t \*in\_buffer, const size\_t in\_buffer\_size, const uint8\_t \*out\_buffer)

If all the bytes needs to be hashed is known before hashing and/or system has enough heap/stack memory to allocate to all the bytes, This function can be called.

HashControllerStatus OmegaHashController\_ingest\_data\_streamed (OmegaHashController\_t \*in\_

 controller, const uint8\_t \*in\_buffer, const size\_t in\_buffer\_size, const uint8\_t \*out\_buffer)

If all the bytes needs to be hashed is not known before hashing and/or system doesn't have enough heap/stack memory to allocate to all the bytes, This function can be called. To ingest the input data as well as retireve the final hash output this function is being used with providing some parameters as NULL.

• HashControllerStatus OmegaHashController deinit (OmegaHashController t \*in controller)

used to free all the allocated resources

## 5.2.1 Detailed Description

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Chameera Subasinghe

Date

Friday, 1st March 2024 2:28:17 am

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## 5.2.2 Enumeration Type Documentation

### 5.2.2.1 HashAlgorithm

enum HashAlgorithm

Hash Algorithms that are supported by Hash Controller.

#### Enumerator

HASH256	abstraction for MBEDTLS_MD_SHA256 inside md.h
	mbedtls_md_type_t

#### 5.2.2.2 HashControllerStatus

enum HashControllerStatus

ReturnTypes/StatusCodes for the Hash Controller.

#### Enumerator

HSC_SUCCESS	Indicates success in any operation related to HashController.
HSC_FAILED	Indicates failure in any operation related to HashController.
HSC_INVALID_PARAMETERS	Indicates failure due to invalid parameters provided to
	functions/sub-routines and/or structures.
HSC_HASH_ALGO_NOT_FOUND	Indicates that provided HashAlgorithm parameter in
	OmegaHashController_init is not valid.
HSC_HASH_ALGO_NOT_SUPPORTED	Indicates that API is trying to use unsupported hash algorithms.
	mbedtls supports many hash algorithms [described inside
	mbedtls_md_type_t]. But this controller only supports
	SHA256 as of 2024-03-03.
HSC_NO_MEM	Indicate that there is not enough Heap/Stack memory to allocate
	for the necessary operations.
HSC_UNKNOWN	Indicates Unknown error has occured.

### 5.2.3 Function Documentation

### 5.2.3.1 OmegaHashController\_deinit()

```
\label{lem:lem:hashController_deinit} \begin{tabular}{ll} HashControllerStatus & OmegaHashController_t * in\_controller \end{tabular} \end{tabular}
```

used to free all the allocated resources

### **Parameters**

in_controller   Input parameter. Instance of OmegaHashController_t that previously initialized.
---

#### Returns

HashControllerStatus HSC\_SUCCESS if the freeing of resources was successful

## 5.2.3.2 OmegaHashController\_ingest\_data\_single()

```
HashControllerStatus OmegaHashController_ingest_data_single (
          OmegaHashController_t * in_controller,
          const uint8_t * in_buffer,
          const size_t in_buffer_size,
          const uint8_t * out_buffer )
```

If all the bytes needs to be hashed is known before hashing and/or system has enough heap/stack memory to allocate to all the bytes, This function can be called.

#### **Parameters**

in_controller	Input parameter. Instance of the OmegaHashController_t that previously	
initialized/reset. Therefore this cannot be NULL		
in_buffer	Input parameter. buffer that contains the bytes needs to be hashed. Cannot be NULL.	
in_buffer_size	Input parameter. Size of the input buffer that was provided in the in_buffer parameter.	
	Cannot be NULL, 0 or negative.	
out_buffer	out_buffer Output parameter. Result of the hash operation will be set in this byte buffer. This needs to	
	in the correct size.	

#### Returns

HashControllerStatus HSC\_SUCCESS if hash operation was successful.

## 5.2.3.3 OmegaHashController\_ingest\_data\_streamed()

If all the bytes needs to be hashed is not known before hashing and/or system doesn't have enough heap/stack memory to allocate to all the bytes, This function can be called. To ingest the input data as well as retireve the final hash output this function is being used with providing some parameters as NULL.

#### **Parameters**

in_controller	Input parameter. Instance of the OmegaHashController_t that previously initialized/reset. Therefore this cannot be NULL
in_buffer	Input parameter. buffer that contains the bytes needs to be hashed. This cannot be NULL during data ingestion and can be NULL when retireving hashed data.
in_buffer_size	Input parameter. Size of the input buffer that was provided in the in_buffer parameter. This cannot be NULL during data ingestion and can be NULL, 0 or negative when retireving hashed data.
out_buffer	Output parameter. Result of the hash operation will be set in this byte buffer. This can be NULL during ingestion of data. Cannot be NULL when retireving hashed data.

#### Returns

HashControllerStatus HSC\_SUCCESS if the hash operations [ingestion and digestion] was successful.

## 5.2.3.4 OmegaHashController\_init()

Initialize and allocate required memory for the specified hash algorithm for the HashController instance.

#### **Parameters**

in_controller	Input parameter. Instance of the OmegaHashController_t that needs to be	
	initialized. Cannot be NULL	
in_hash_algorithm	Input parameter. Indicates the hash algorithm that is going to be used by this instance of	
	HashController	

#### Returns

HashControllerStatus HSC\_SUCCESS if OmegaHashController\_t initialized successfully.

### 5.2.3.5 OmegaHashController\_reset()

```
\label{lem:hashController_Teset} HashControllerStatus \ OmegaHashController\_reset \ ( \\ OmegaHashController\_t * in\_controller \ )
```

After a successful OmegaHashController\_ingest\_data\_streamed() hashing operation, OmegaHashController\_t needs to be reset before doing another hash operation. Purpose of this function is to reset all the internal variables, free old memory and allocate new memory. This function isn't required to be called if the hash operation was OmegaHashController\_ingest\_data\_single(). This function will be called internally in OmegaHashController\_ingest\_data\_single()

#### **Parameters**

in_controller	Input parameter. Instance of the OmegaHashController_t that needs to be reset
---------------	---

## Returns

HashControllerStatus HSC\_SUCCESS if OmegaHashController\_t reset successfully

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