edu.mit.csail.aeolus.api

Class AeolusFileOutputStream

```
java.lang.Object
  └ edu.mit.csail.aeolus.api.AeolusFileOutputStream
```

`public class` **`AeolusFileOutputStream`**`extends java.lang.Object`

An Aeolus file output stream can be used for writing data to a given file.

The stream will only be created and opened if the requester labels allow writing to the file.

The file stream buffers all the writes. Closing the file stream causes data to be actually written to the file.

If the caller labels change and no longer allow the write, the stream will be closed and any data previously written to the stream will be written to the file.

Constructor Summary

`AeolusFileOutputStream``(java.lang.String hostname, java.lang.String filePath, boolean appendMode)` Creates a filestream for writing to the file specified by filePath on hostname

Method Summary

`void`	**`close`**`()` Closes the file stream.
`void`	**`write`**`(byte[] buffer)` Writes buffer.length bytes to the stream from the given buffer.
`void`	**`write`**`(byte[] buffer, int offset, int count)` Writes count bytes into the stream from the buffer starting at the given offset.

Methods inherited from class java.lang.Object

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructor Detail

AeolusFileOutputStream

```
public AeolusFileOutputStream(java.lang.String hostname,
                              java.lang.String filePath,
                              boolean appendMode)
                       throws AeolusException,
                              java.io.FileNotFoundException,
                              java.io.IOException
```

Creates a filestream for writing to the file specified by filePath on hostname

Parameters:

`hostname` - - node where the file is stored

`filePath` - - path to the file on hostname

`appendMode` - - if set to true, the bytes will be written to the end of the file

Throws:

`InfoFlowControlException` - - if caller labels don’t allow writing to the file or reading from a parent directory if the file is missing

`java.io.FileNotFoundException` - - if the file does not exist on the hostname

`AeolusException` - - if a FileSystemClient can not be created

`java.io.IOException` - - if an I/O error occurs while opening the file stream (e.g. when retrieving file labels)

Method Detail

close

```
public void close()
           throws java.io.IOException,
                  AeolusException
```

Closes the file stream. Any subsequent operations on this stream will fail with an IOException.

Throws:

`java.io.IOException` - - if an I/O error occurs while writing the data to the file or the file is already closed

`AeolusException`

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write

```
public void write(byte[] buffer)
           throws java.io.IOException,
                  InfoFlowControlException,
                  AeolusException
```

Writes buffer.length bytes to the stream from the given buffer.

Parameters:

`buffer` - - byte array storing the data to be written

Throws:

`java.io.IOException` - - if an I/O error occurred while writing to the stream (e.g. the stream has been closed)

`InfoFlowControlException` - - if caller labels no longer allow writing to the file

`AeolusException`

write

```
public void write(byte[] buffer,
                  int offset,
                  int count)
           throws java.io.IOException,
                  InfoFlowControlException,
                  AeolusException
```

Writes count bytes into the stream from the buffer starting at the given offset.

Throws:

`java.io.IOException` - - if an I/O error occurred while writing to the stream (e.g. the stream has been closed)

`InfoFlowControlException` - - if caller labels no longer allow writing to the file

`AeolusException`

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