

# ioctl MEDIA\_IOC\_REQUEST\_ALLOC

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 2)

Unknown directive type "c.namespace".

```
.. c:namespace:: MC
```

## Name

MEDIA\_IOC\_REQUEST\_ALLOC - Allocate a request

## Synopsis

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 18)

Unknown directive type "c.macro".

```
.. c:macro:: MEDIA_IOC_REQUEST_ALLOC
```

```
int ioctl(int fd, MEDIA_IOC_REQUEST_ALLOC, int *argp)
```

## Arguments

fd

File descriptor returned by `c:func:open()`.

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 26); [backlink](#)

Unknown interpreted text role "c:func".

argp

Pointer to an integer.

## Description

If the media device supports `ref:requests <media-request-api>`, then this ioctl can be used to allocate a request. If it is not supported, then `errno` is set to `ENOTTY`. A request is accessed through a file descriptor that is returned in `*argp`.

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 34); [backlink](#)

Unknown interpreted text role "ref".

If the request was successfully allocated, then the request file descriptor can be passed to the `ref:VIDIOC_QBUF <VIDIOC_QBUF>`, `ref:VIDIOC_G_EXT_CTRL <VIDIOC_G_EXT_CTRL>`, `ref:VIDIOC_S_EXT_CTRL <VIDIOC_G_EXT_CTRL>` and `ref:VIDIOC_TRY_EXT_CTRL <VIDIOC_G_EXT_CTRL>` ioctls.

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 39); [backlink](#)

Unknown interpreted text role "ref".

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 39); [backlink](#)

Unknown interpreted text role "ref".

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 39); [backlink](#)

Unknown interpreted text role "ref".

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 39); [backlink](#)

Unknown interpreted text role "ref".

In addition, the request can be queued by calling `ref`MEDIA_REQUEST_IOC_QUEUE`` and re-initialized by calling `ref`MEDIA_REQUEST_IOC_REINIT``.

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 45); [backlink](#)

Unknown interpreted text role "ref".

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 45); [backlink](#)

Unknown interpreted text role "ref".

Finally, the file descriptor can be `ref`polled <request-func-poll>`` to wait for the request to complete.

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 49); [backlink](#)

Unknown interpreted text role "ref".

The request will remain allocated until all the file descriptors associated with it are closed by `:c:func:`close()`` and the driver no longer uses the request internally. See also `ref`here <media-request-life-time>`` for more information.

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 52); [backlink](#)

Unknown interpreted text role "c:func".

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 52); [backlink](#)

Unknown interpreted text role "ref".

## Return Value

On success 0 is returned, on error -1 and the `errno` variable is set appropriately. The generic error codes are described at the `ref`Generic Error Codes <gen-errors>`` chapter.

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl]media-ioc-request-alloc.rst, line 60); [backlink](#)

Unknown interpreted text role "ref".

ENOTTY

The driver has no support for requests.