ioctl MEDIA_IOC_ENUM_LINKS

```
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-enum-links.rst, line 2)
Unknown directive type "cnamespace".
.. c:namespace:: MC
```

Name

MEDIA IOC ENUM LINKS - Enumerate all pads and links for a given entity

Synopsis

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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-enum-links.rst, line 18)

Unknown directive type "c.macro".

.. c:macro:: MEDIA_IOC_ENUM_LINKS
```

int ioctl(int fd, MEDIA IOC ENUM LINKS, struct media links enum *argp)

Arguments

fd

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

 $System\,Message: ERROR/3 \ (\mbox{D:\noboarding-resources}\) \ \mbox{mediactl\linux-master} \\ [Documentation] \ \mbox{[userspace-api] [media] [mediactl] media-ioc-enum-links.rst, line 26);} \\ backlink$

Unknown interpreted text role "c:func".

argp

Pointer to struct :c:type:\media_links_enum\.

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-enum-links.rst, line 29); backlink

Unknown interpreted text role "c:type".

Description

To enumerate pads and/or links for a given entity, applications set the entity field of a struct :c:type:'media_links_enum' structure and initialize the struct :c:type:'media_pad_desc' and struct :c:type:'media_link_desc' structure arrays pointed by the pads and links fields. They then call the MEDIA_IOC_ENUM_LINKS ioctl with a pointer to this structure.

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-enum-links.rst, line 34); backlink
Unknown interpreted text role "c:type".

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master\Documentation\userspace-api\media\mediactl\[linux-master] [Documentation] [userspace-api] [media] [mediactl] media-ioc-enum-links.rst, line 34); backlink
Unknown interpreted text role "c:type".
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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-enum-links.rst, line 34); backlink
Unknown interpreted text role "c:type".
```

If the pads field is not NULL, the driver fills the pads array with information about the entity's pads. The array must have enough room to store all the entity's pads. The number of pads can be retrieved with ref. MEDIA_IOC_ENUM_ENTITIES`.

```
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-enum-links.rst, line 42); backlink
Unknown interpreted text role "ref".
```

If the links field is not NULL, the driver fills the links array with information about the entity's outbound links. The array must have enough room to store all the entity's outbound links. The number of outbound links can be retrieved with ref. MEDIA IOC ENUM ENTITIES'.

```
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-enum-links.rst, line 47); backlink
Unknown interpreted text role "ref".
```

Only forward links that originate at one of the entity's source pads are returned during the enumeration process.

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\[linux-master][Documentation]
[userspace-api] [media] [media-loc-enum-links.rst, line 55)

Unknown directive type "c:type".

.. c:type:: media_links_enum
```

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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-enum-links.rst, line 57)

Unknown directive type "tabularcolumns".

.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|
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Unknown directive type "flat-table".

```
    - \*\ ``links``
    - Pointer to a links array allocated by the application. Ignored if NULL.
    * - u32
    - ``reserved[4]``
    - Reserved for future extensions. Drivers and applications must set the array to zero.
```

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-enum-links.rst, line 83)
Unknown directive type "c.type".
.. c:type:: media pad desc

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-enum-links.rst, line 85)

Unknown directive type "tabularcolumns".

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.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|
```

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-enum-links.rst, line 87)

Unknown directive type "flat-table".

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-enum-links.rst, line 110)

Unknown directive type "c:type".

```
.. c:type:: media_link_desc
```

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-enum-links.rst, line 112)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|
```

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\userspace-api\media\text{[linux-master][Documentation]
[userspace-api] [media] [mediactl] media-ioc-enum-links.rst, line 114)
Unknown directive type "flat-table".
   .. flat-table:: struct media link desc
       :header-rows: 0
       :stub-columns: 0
                      1 1 2
       :widths:
          - struct :c:type: `media_pad_desc`
             ``source`
          - Pad at the origin of this link.
          - struct :c:type:`media_pad_desc`
              ``sink`
          - Pad at the target of this link.
               u32
             ``flags``
          - Link flags, see :ref:`media-link-flag` for more details.
               u32
            ``reserved[2]``
          - Reserved for future extensions. Drivers and applications must set
             the array to zero.
```

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-enum-links.rst, line 139); backlink

Unknown interpreted text role 'ref'.

EINVAL

The struct :c:type: media_links_enum id references a non-existing entity.

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Unknown interpreted text role "c:type".