ioctl 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-entities.rst, line 2)

Unknown directive type "cnamespace".

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

Name

MEDIA_IOC_ENUM_ENTITIES - Enumerate entities and their properties

Synopsis

```
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master\Documentation\userspace-api\media\mediactl\((linux-master)\) (Documentation)
(userspace-api) (media) (mediactl) media-ioc-enum-entities.rst, line 18)

Unknown directive type "c.macro".

.. c:macro:: MEDIA_IOC_ENUM_ENTITIES
```

int ioctl (int fd, MEDIA IOC ENUM ENTITIES, struct media entity desc *argp)

Arguments

fd

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

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Unknown interpreted text role "c:func".

argp

Pointer to struct :c:type:'media entity desc'.

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Description

To query the attributes of an entity, applications set the id field of a struct <code>:c:type:`media_entity_desc`</code> structure and call the MEDIA_IOC_ENUM_ENTITIES ioctl with a pointer to this structure. The driver fills the rest of the structure or returns an EINVAL error code when the id is invalid.

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Entities can be enumerated by or'ing the id with the MEDIA ENT ID FLAG NEXT flag. The driver will return information about the

entity with the smallest id strictly larger than the requested one ('next entity'), or the EINVAL error code if there is none.

Entity IDs can be non-contiguous. Applications must *not* try to enumerate entities by calling MEDIA_IOC_ENUM_ENTITIES with increasing id's until they get an error.

```
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Unknown directive type "c:type".

.. c:type:: media_entity_desc
```

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(userspace-api) (media) (mediactl) media-ioc-enum-entities.rst, line 53)
Unknown directive type "tabularcolumns".

.. tabularcolumns:: |p{1.5cm}|p{1.7cm}|p{1.6cm}|p{1.5cm}|p{10.6cm}|

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Unknown directive type "flat-table".

```
.. flat-table:: struct media entity desc
   :header-rows: 0
   :stub-columns: 0
   :widths: 2 2 1 8
       - _u32
- ``id`
      - Entity ID, set by the application. When the ID is or'ed with
          ``MEDIA ENT ID FLAG NEXT``, the driver clears the flag and returns
         the first entity with a larger ID. Do not expect that the ID will
         always be the same for each instance of the device. In other words,
         do not hardcode entity IDs in an application.
      - char
          ``name``\ [32]
      - Entity name as an UTF-8 NULL-terminated string. This name must be unique
         within the media topology.
           u32
         ___type``
      - Entity type, see :ref: `media-entity-functions` for details.
           u32
         ``revision``
       - Entity revision. Always zero (obsolete)
        __u32
``flags``
      - Entity flags, see :ref:`media-entity-flag` for details.
           u32
         ``group_id``
      - Entity group ID. Always zero (obsolete)
           1116
      - ``pads``
      - Number of pads
           u16
         ~`links``
      - Total number of outbound links. Inbound links are not counted in
```

```
this field.
       u32
     ``reserved[4]``
  - Reserved for future extensions. Drivers and applications must set
     the array to zero.
  - union {
  - (anonymous)
  - struct
      ``dev``
  - Valid for (sub-)devices that create a single device node.
  - __u32
- ``major``
  - Device node major number.
  - __u32
- ``minor``
  - Device node minor number.
       u8
  - ``raw``\ [184]
* - }
```

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.

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Unknown interpreted text role "ref".

EINVAL

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

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Unknown interpreted text role "c:type".