

# The ALSA Driver API

## Management of Cards and Devices

### Card Management

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 10)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/init.c
```

### Device Components

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 14)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/device.c
```

### Module requests and Device File Entries

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 18)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/sound.c
```

### Memory Management Helpers

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 22)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/memory.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 23)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/memalloc.c
```

## PCM API

### PCM Core

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 31)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 32)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm_lib.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 33)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm_native.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 34)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/pcm.h
```

## PCM Format Helpers

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 38)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm_misc.c
```

## PCM Memory Management

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 42)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm_memory.c
```

## PCM DMA Engine API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 46)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm_dmaengine.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 47)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/dmaengine_pcm.h
```

## Control/Mixer API

### General Control Interface

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api) alsa-driver-api.rst, line 54)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/control.c
```

### AC97 Codec API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api) alsa-driver-api.rst, line 58)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/pci/ac97/ac97_codec.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api) alsa-driver-api.rst, line 59)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/pci/ac97/ac97_pcm.c
```

### Virtual Master Control API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api) alsa-driver-api.rst, line 63)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/vmaster.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api) alsa-driver-api.rst, line 64)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/control.h
```

## MIDI API

### Raw MIDI API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api) alsa-driver-api.rst, line 71)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/rawmidi.c
```

## MPU401-UART API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 75)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/drivers/mpu401/mpu401_uart.c
```

## Proc Info API

### Proc Info Interface

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 82)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/info.c
```

## Compress Offload

### Compress Offload API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 89)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/compress_offload.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 90)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/uapi/sound/compress_offload.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 91)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/uapi/sound/compress_params.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 92)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/compress_driver.h
```

## ASoC

### ASoC Core API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 99)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/soc.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 100)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-core.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 101)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-devres.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 102)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-component.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 103)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-pcm.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 104)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-ops.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 105)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-compress.c
```

## ASoC DAPM API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 109)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-dapm.c
```

## ASoC DMA Engine API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 113)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-generic-dmaengine-pcm.c
```

## Miscellaneous Functions

### Hardware-Dependent Devices API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 120)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/hwdep.c
```

### Jack Abstraction Layer API

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 124)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/jack.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 125)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/jack.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 126)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-jack.c
```

### ISA DMA Helpers

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 130)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/isadma.c
```

### Other Helper Macros

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 134)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/core.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\ (linux-master) (Documentation) (sound) (kernel-api)alsa-driver-api.rst, line 135)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/sound_core.c
```