



####

---

openSUSE Tumbleweed ##### Linux #####  
#####

###: ###.##Grover Chou#Dingzhong Chen  
##### 2023-10-21 ##84.87.20231021.8ddc07b

##

- 1 ## 2
- 2 ## 3
- 3 ##### 4

```
##### https://doc.opensuse.org/release-notes ↗ #####
#####
##### openSUSE Bugzilla##### https://zh.opensuse.org/openSUSE:%E6%8F
%90%E4%BA%A4%E9%94%99%E8%AF%AF%E6%8A%A5%E5%91%8A ↗ #
```

## 1 ##

### 1.1 UEFI——#####

```
# openSUSE ##### UEFI#####
##### Windows 8 ##### UEFI #####
##### ## UEFI ##### UEFI #####"##"#openSUSE #####
#####"####"##### UEFI ## openSUSE ##### Linux
##### UEFI ##### (pstore) #####
```

### 1.2 UEFI#GPT # MS-DOS ##

```
### EFI/UEFI #####GPT#GUID #####128 ##### 32 #####
#####
```

Additionally, the UEFI specification also allows legacy MBR (MS-DOS) partitions. The Linux boot loaders (ELILO or GRUB2) try to automatically generate a GUID for those legacy partitions, and write them to the firmware. Such a GUID can change frequently, causing a rewrite in the firmware. A rewrite consists of two different operations: removing the old entry and creating a new entry that replaces the first one.

```
#####; #####
##### MBR ##### GPT #####
```

## 2 ##

### 2.1 ## LUKS #####

#####Plymouth ##### plymouth.enable=0 #####  
[https://bugzilla.opensuse.org/show\\_bug.cgi?id=966255](https://bugzilla.opensuse.org/show_bug.cgi?id=966255) ↗ #

### 2.2 `systemctl stop apparmor` ###

##### AppArmor #### `systemctl` ##### `reload` # `restart` #####

- `systemctl reload apparmor` ##### AppArmor #####  
AppArmor #####
- `systemctl restart apparmor` ### AppArmor ##### AppArmor #####  
#####

##### `systemd` ##### `restart` #####

# AppArmor 2.12 ##### `systemctl stop apparmor` ##### `systemctl restart apparmor` ##### AppArmor #####

##### AppArmor ##### `aa-teardown` ##### `systemctl stop apparmor` ##  
#####

##### [https://bugzilla.opensuse.org/show\\_bug.cgi?id=996520](https://bugzilla.opensuse.org/show_bug.cgi?id=996520) ↗ # [https://bugzilla.opensuse.org/show\\_bug.cgi?id=853019](https://bugzilla.opensuse.org/show_bug.cgi?id=853019) ↗ #

### 2.3 ##### Compose ###

#### openSUSE ####Compose ##### “å”#####

`Shift`—`右 Ctrl` ### `a` ###

# openSUSE Tumbleweed ##### Compose ##### `Shift`—`右 Ctrl` #####

- ##### Compose ##### `/etc/X11/Xmodmap` #####

```
[...]
!! Third example: Change right Control key to Compose key.
!! To do Compose Character, press this key and afterwards two
!! characters (e.g. `a' and `^' to get 342).
!remove Control = Control_R
!keysym Control_R = Multi_key
!add Control = Control_R
[...]
```

```
##### ! ##### setxkbmap ##### Xmodmap #####
```

- ##### Compose ##### setxkbmap #####

```
setxkbmap [...] -option compose:COMPOSE_#
```

```
### COMPOSE_# ##### ralt ## Alt ### lwin ## Windows ### rwin ##
Windows ### menu ##### rctl ## Ctrl #### caps #####
```

- ##### IBus ##### Compose ##

### 3 #####

- ##### README ###
- # RPM #####

```
rpm --changelog -qp ###.rpm
```

```
# ### ### RPM ####
```

- ##### ChangeLog #####
- ##### docu #####
- ##### <https://doc.opensuse.org/>  #
- ## openSUSE ##### <https://www.opensuse.org>  #

```
#### © SUSE LLC
```

#### openSUSE#

openSUSE ###