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openSUSE Tumbleweed ##### PC ##### Linux #####  
##### Web #####

###: 2023-10-21 , : 84.87.20231021.8ddc07b

##

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

##### <https://ja.opensuse.org/openSUSE:%E3%83%AA%E3%83%AA%E3%83%BC%E3%82%B9%E3%83%8E%E3%83%BC%E3%83%88> #####  
#####  
#####

To report bugs against this release, use the openSUSE Bugzilla. For more information, see [https://en.opensuse.org/openSUSE:Submitting\\_bug\\_reports](https://en.opensuse.org/openSUSE:Submitting_bug_reports).

## 1 #####

### 1.1 UEFI—Unified Extensible Firmware Interface

UEFI (Unified Extensible Firmware Interface) ##### openSUSE #####  
##### Windows 8 #####  
#### UEFI #####  
##: UEFI ##### UEFI #####  
##### "###"##### openSUSE ### OS #####  
(UEFI ##### openSUSE #####) ##### Linux ####  
##### UEFI ##### (pstore) #####openSUSE #####  
#####

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

EFI/UEFI ##### GPT (GUID #####) #####  
GUID (###; 32 ## 16 ##### 128 #####) #####

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` #####

##### `systemctl` ##### `reload` # `restart` #####  
#:

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

openSUSE ##### #å# #####

#### `Shift` `右 Ctrl` ##### `a` # 2 #####

openSUSE Tumbleweed ### `Shift` `右 Ctrl` #####

- ##### `/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 #####
#####
```

- #####  
setxkbmap #####:

```
setxkbmap [...] -option compose:COMPOSE_KEY
```

```
COMPOSE_KEY #####: ralt, lwin, rwin, menu, rctl, caps
#
```

- ##### (#####) IBus #####

### 3 #####

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

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

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

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

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