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openSUSE Tumbleweed  
#####2016-01-27, #42.1.20160127

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

# 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 Partition Table##### GUID#128#####32#####  
#####  
###UEFI ##### MBR#MS-DOS##### Linux #####ELILO # GRUB2##### GUID #####  
##### GUID #####  
#####garbage collector#####entries#####entries#####  
##entries#####  
##### MBR ##### GPT #####
```

# 2 ####

## 2.1 #####

CUPS ##### 1.7

The new CUPS version introduced some major changes compared to 1.5 that may require manual configuration adjustments

- PDF is now the standard print job format rather than PS. Therefore traditional PostScript printers now also need a filter driver for printing.  
See [http://en.opensuse.org/Concepts\\_printing](http://en.opensuse.org/Concepts_printing)  for details.
- The network printer discovery protocol has changed. The native method to discover network printers is now based on DNS Service discovery (DNS-SD, ie via Avahi). The cups-browsed service from the cups-filters package can be used to bridge old and new protocols. Both cupsd and cups-browsed need to run to make "legacy" clients discover printers (that includes LibreOffice and KDE).

- The IPP protocol default version changed from 1.1 to 2.0. Older IPP servers like CUPS 1.3.x (for example in SUSE Linux Enterprise 11) reject IPP 2.0 requests with "Bad Request" (see <http://www.cups.org/str.php?L4231>).

To be able to print to old servers the IPP protocol version must be specified explicitly by appending '/version=1.1' to either

- the ServerName settings in client.conf (e.g., ServerName older.server.example.com/version=1.1)
- the CUPS\_SERVER environment variable value
- the server name value of the -h option of the command line tools e.g.,

```
lpstat -h older.server.example.com/version=1.1 -p
```

- Some printing filters and back-ends were moved from the cups package to the cups-filters package
- Some configuration directives were split from cupsd.conf into cups-files.conf (see <http://www.cups.org/str.php?L4223>, CVE-2012-5519, and [https://bugzilla.opensuse.org/show\\_bug.cgi?id=789566](https://bugzilla.opensuse.org/show_bug.cgi?id=789566)).
- CUPS banners and the CUPS test page were moved from the cups package the cups-filters package (see <http://www.cups.org/str.php?L4120> and [https://bugzilla.opensuse.org/show\\_bug.cgi?id=735404](https://bugzilla.opensuse.org/show_bug.cgi?id=735404)).

### 3 #####

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

```
rpm --changelog -qp <FILENAME>.rpm
```

<FILENAME> #####

- ##### DVD ##### ChangeLog #####
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