



Printing and the LSB 4.1

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LSB 4.1: Printing Requirements

- **CUPS 1.2.x convenience API with http/ipp/ppd functions**
- **Printing API of Qt 4**
- **Printing API of GTK 2.10.x (especially CUPS-based printing dialog)**
- **Renderer/Driver interfaces**
 - IJS
 - CUPS Raster
 - OpenPrinting Vector
- **Foomatic-rip**
- **Search path for PPD files**

With these requirements applications with printing functionality can be easily coded and distribution-independent driver packages can be created.



What would be great for next LSB?

- **SANE**
 - for multi-function devices
- **D-Bus**
 - for inter-process communication between filters, backends and GUI
- **Udev**
 - for device detection and permission setting



- **SANE (Scanner Access Now Easy) 1.0.x**

- For multi-function devices and stand-alone scanners
- Stable interface for years
- Present in all Linux distributions
- SANE 2 development did not start yet

Full CUPS API, especially IPP interface

- It is in all distributions
- More flexibility for printer access
- Everything which our target CUPS version has except what is removed/deprecated in newer versions

- **Uplift of interface versions**

- Underlying SLES/RHEL version in LSB 4.1? New interfaces of uplift perhaps only in an optional add-on?
- CUPS 1.2.x convenience API
- GTK 2.10.x or newer
- OpenPrinting Vector 1.0



- **Add D-Bus**

- Needed for interaction between CUPS filters/backends and user desktop
- HPLIP Fax: Fax backend pops up dialog for fax number and cover page

- **Add UDEV**

- Actions (set permissions, run scripts) on discovered hardware
- Firmware upload into printer, group permissions, ...