

OpenPrinting Plenary

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IPP Everywhere under Linux – Driverless Printing

Support completely implemented:

- cups-filters: gstoraster/pdftoraster turns PDF into PWG Raster to send to IPP Everywhere printer, rastertopdf accepts PWG Raster as input for CUPS queue to emulate IPP Everywhere printer
- cups-browsed: If activated IPP Everywhere printers are discovered and a queue auto-generated, even with PPD file (PPD generator taken from CUPS 2.1.x, experimental)
- Ghostscript: PWG Raster format can be generated via "pwgraster" device or via "cups" device and MediaClass "PwgRaster"
- Printing stack of Level 2 is enough
- Ubuntu Vivid (15.04) contains all this and therefore should fully support IPP Everywhere
- Backport to Ubuntu Trusty (14.04 LTS) planned, but we need testing by manufacturers first
- NEEDED: Testing all this by printer manufacturers, so please take Ubuntu 15.04 and test with your printers



Mobile Printing

Printing stack ready for mobile:

- cupsd and cups-browsed can be run on-demand, with systemd (most modern distros, incl. Ubuntu 15.04) or Upstart (Ubuntu Phone)
- Packaging of printing stack in three levels, level 2 for mobile, level 3 for desktop, server can be level 2 (appliance) or level 3 (computer)
- Printing stack is same software for mobile and desktop, so convergence (connect mobile phone to monitor to get desktop) is easy
- MISSING: Mobile print dialog, but will be implemented soon for Ubuntu Mobile
- Nice to have: Lightweight renderer like MuPDF



cups-filters

Most important changes:

- Create and accept PWG Raster format
- For IPP Everywhere printers (and generally printers providing enough info va IPP) cups-browsed creates queues with PPD file (generator from CUPS 2.1.x)
- Many stability and security fixes for cups-browsed
- cups-browsed also builds with CUPS 1.5.x (without IPP network printer support)
- New sample PDF for Ricoh's PDF printers
- Lots of bug fixes
- PWG Raster testing by manufacturers needed!



- The Debian packaging will get replaced by the simpler Snappy packaging system
- Snappy: No fine-grained packages, base image, frameworks (system services) and app packages, one package per task
- For convergence (one system is both mobile and desktop)
- Problems for printing:
 - Downloadable LSB-based driver packages via OpenPrinting, packages only as RPM and DEB
 - Independent manufacturer-supplied drivers also usually come as RPM and DEB.
- General problem:
 - Collaboration between Ubuntu and Debian based on DEB packages
- https://developer.ubuntu.com/en/snappy

