

OpenPrinting WG Asia/Japan Regional Group

OPFC (OpenPrinting Framework Consortium)
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OpenPrinting WG Asia/Japan Regional Group

- Activities in 2008
 - Vector Printer Driver API (OPVP)
 - CUPS PDF Filters
- Active Participants (alphabetic order)
 - Atsushi Sekiguchi (Konica Minolta)
 - Hidenori Ishii (Avasys)
 - Hidenori Kanjo (BBR)
 - Koji Otani (BBR)
 - Naruhiko Ogasawara (Ricoh)
 - Olaf Meeuwissen (Avasys)
 - Osamu Mihara (Fuji Xerox)
 - Takashi Kunai (The Linux Foundation)
 - Tatsuya Saito (NEC Soft)
 - Toshihiro Yamagishi (Turbolinux)
 - Yasumasa Toratani (Canon)
 - Yasushi Osonoi (The Linux Foundation)
 - Yoshinari Chigusa (Ricoh)





Vector Printer Driver API (OPVP) - Activities and Current State

Define Printer Driver API Supporting High Level Graphics Functions

- Vector drawing API, such as drawing lines, bezier curves, rectangles, images, etc...
- Renderer (such as poppler and Ghostscript) calls a driver via the API, then driver generates printer command data

Version 0.2 – Former Spec.

- > API Spec. released in 2003
- HP PCL5, EPSON, NEC and Canon Drivers have been released so far
- Integrated code into many distros as "opvp" driver with GS

Version 1.0 – Latest Spec.

- ftp://ftp.pwg.org/pub/pwg/fsg/vector/pdapispec-1.0rc5.odt
- Implementation and driver testing has been completed
- NEC and Canon Drivers have been tested
- Version 0.2 and 1.0 compliant "opvp" driver has been committed to GS8.63
 - Both the opvp 0.2 compliant printer driver and the opvp 1.0 compliant printer driver work under the new "opvp" code w/o any modifications
- Ready to be released with Ubuntu





CUPS PDF Filters - Activities and Current State

Develop Four CUPS PDF Filters

- imagetopdf, pdftopdf, pdftoopvp and pdftoraster
- Already implemented and released at http://sourceforge.jp/projects/opfc

SVN Repositories

- http://svn.sourceforge.jp/cgi-bin/viewcvs.cgi/imagetopdf/?root=opfc
- http://svn.sourceforge.jp/cgi-bin/viewcvs.cgi/pdftopdf/?root=opfc
- http://svn.sourceforge.jp/cgi-bin/viewcvs.cgi/pdftoopvp/?root=opfc
- http://svn.sourceforge.jp/cgi-bin/viewcvs.cgi/pdftoraster/trunk/?root=opfc

CUPS PDF filters	Description
imagetopdf	Convert several kind of images to PDF
pdftopdf	Convert PDF created by application or previous CUPS filter to layouted (N-up, scaling, etc) PDF
pdftoopvp	Parse PDF and call a driver which is compliant with Vector Printer Driver API (OPVP)
pdftoraster	Parse PDF and output data for a CUPS raster compliant driver





OpenPrinting WG Asia/Japan Regional Group - Road-Map/Next-Steps

Vector Printer Driver API and Implementation

- Maintain "opvp" code and fix bugs if found
- Investigate further requirement, such as text, color, etc, and enhance the API
- Develop driver example code, such as PCL6, etc.

CUPS PDF Filters

- Maintain filters code and fix bugs if found
- Implement pdftoopvp using "libpoppler" to prepare good code maintenance
 - imagetopdf, pdftopdf and pdftoraster have been implemented using external PDF library "libpoppler", but not yet pdftoopvp

Seek New Requirements for 2009 Activities

- API Standardization as well as implementation
- Printing and scanning





Any questions?

