Project History

Information-technology Promotion Agency (IPA) solicits open source infrastructure improving projects

Common Printing System Development project submitted by the OpenPrinting Framework Consortium is selected for funding
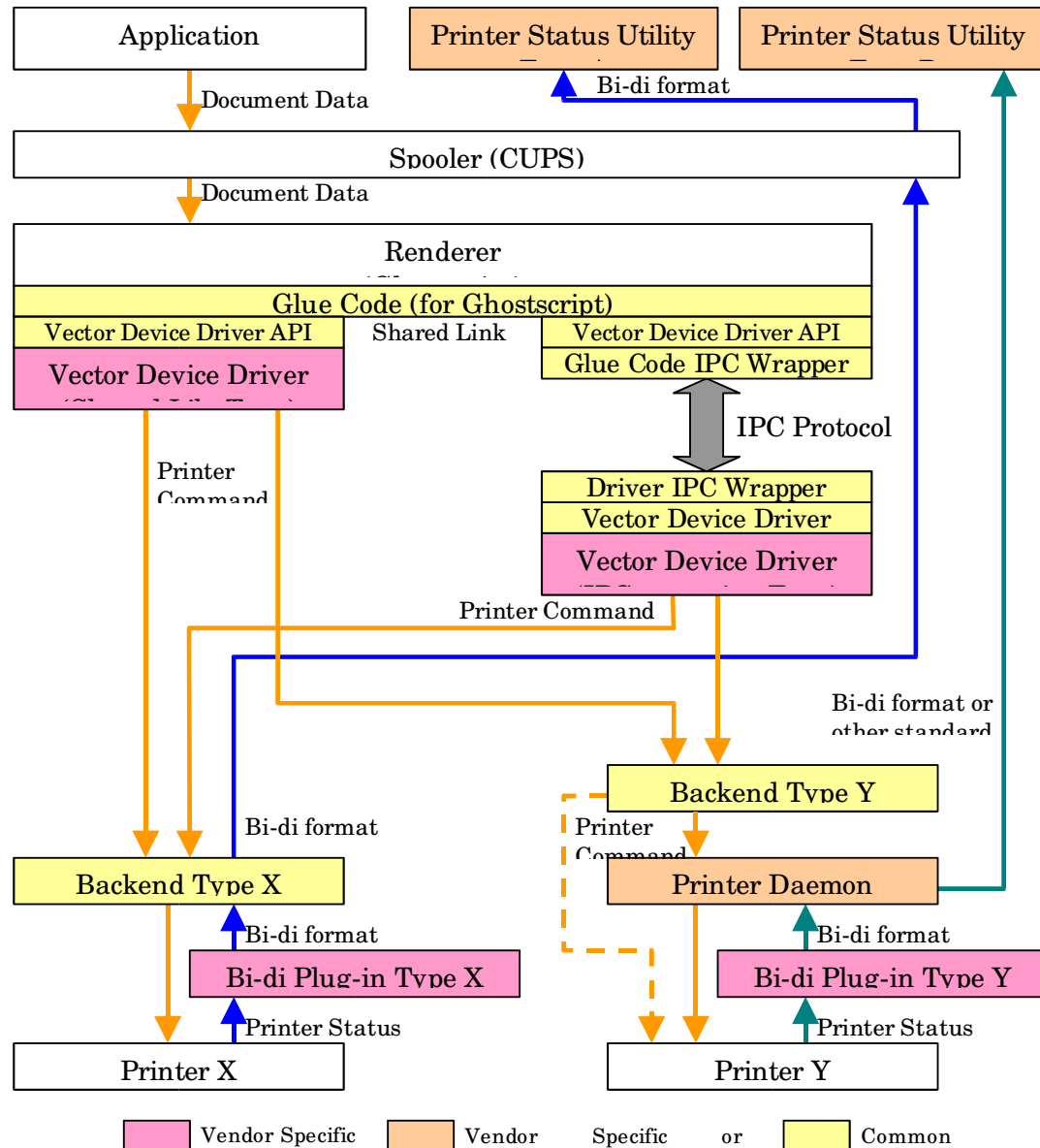
Consortium implements Vector Printer Driver and Bi-di Plugin APIs (plus some supporting bits and pieces)

OpenPrinting WG & IPA project

OpenPrinting WG guides API designs

IPA project participants implement API
and provide feedback on the designs
to the OpenPrinting WG

Architectural Overview

Application		Printer Status Utility	Printer Status Utility

Document Data

Bi-di format

Spooler (CUPS)

Document Data

Renderer

Glue Code (for Ghostscript)

Vector Device Driver API	Shared Link	Vector Device Driver API
		Glue Code IPC Wrapper

Vector Device Driver

IPC Protocol

Driver IPC Wrapper
Vector Device Driver
Vector Device Driver

Printer Command

Printer Command

Bi-di format or other standard

Backend Type Y

Printer Command

Bi-di format

Backend Type X

Printer Daemon

Bi-di format

Bi-di Plug-in Type X

Bi-di format

Bi-di Plug-in Type Y

Printer Status

Printer Status

Printer X		Printer Y

Vendor Specific		Vendor Specific or		Common

IPA Project Participants

- AXE, Inc.
- EPSON KOWA Corporation
- Turbolinux, Inc.
- MintWave Co., Ltd.
- BBR Ltd.
- E&D inc.

Supported Printers

- Canon LBP-2810
- Canon PIXUS850i
- EPSON LP-9500C
- EPSON PX-V700
- Hewlett-Packard LaserJet 4600
- Hewlett-Packard LaserJet 5500

Component Licensing Conditions

Component	License
Glue Code for Ghostscript	GNU GPL
Glue Code for Xprint	X-license (MIT license)
Printer Daemon	MIT license
Glue Code IPC Wrapper	MIT license
Driver IPC Wrapper	MIT license
Printer Status Type A	GNU GPL
Printer Status Type B	GNU GPL, EPSON KOWA Public Licence
Vector Device Driver (IPC extension type) CANON Laser	GNU GPL
Vector Device Driver (IPC extension type) CANON Inkjet	GNU GPL with exception
Vector Device Driver (IPC extension type) EPSON Laser	GNU GPL
Vector Device Driver (IPC extension type) EPSON Inkjet	EPSON KOWA Public Licence
Vector Device Driver (IPC extension type) HP Laser	GNU GPL
Vector Device Driver (Shared Library type) CANON Laser	GNU GPL
Vector Device Driver (Shared Library type) EPSON Laser	GNU GPL
Vector Device Driver (Shared Library type) HP Laser	GNU GPL
Backend (bidiformat library)	GNU LGPL
Backend (USB)	GNU GPL
Backend (lpd)	GNU GPL
Backend (IEEE1284)	GNU GPL
Bi-di Plug-in (Canon)	GNU GPL