



# CUPS

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Michael R Sweet, Apple Inc.  
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# Introduction

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- CUPS is the standards-based, open source printing system developed by Apple Inc. for Mac OS® X and other UNIX®-like operating systems.
- CUPS 1.4.x is the current stable branch
  - Will continue to release patch updates throughout 2010
- CUPS 1.5.x is the current development branch
  - Beta testing starting late 2010

# Legal Stuff

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- Still GPL2/LGPL2
- Still no plans to change to GPL3/LGPL3
- Name of the software and project is now officially just “CUPS”
  - Old logo and long name are going away

# CUPS 1.4 Fixes

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- Web interface
  - Better CSRF protection in CUPS 1.4.3
  - Fixes for browser compatibility in CUPS 1.4.4
- IPP support
  - Greatly improved media-col support coming in CUPS 1.4.4
  - Also fixes for nested collections in CUPS 1.4.4

# CUPS 1.5 Changes

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- Security
  - Job/printer/subscription access control
  - SSL certificate validation/revocation
  - Web interface configuration options
- Command-line programs
  - Help
  - Extended information
  - Additional feature parity between System V and Berkeley commands

# CUPS 1.5 Changes

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- Bonjour support
  - Full support for Avahi
- IPP support
  - ipptest tool
  - IPP Everywhere

# CUPS API Changes

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- ipp\_t now reference-counted starting with CUPS 1.4.4
  - Resolves a long-standing issue with collections
  - ippDelete only frees memory when the reference count goes to 0
  - Updated documentation coming

# CUPS API Changes

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- PPD header (`< cups/ppd.h >`) no longer included from main CUPS header (`< cups/cups.h >`) starting with CUPS 1.5



# IPP Everywhere

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- New standards work being done in the Printer Working Group
  - <http://pwg-wiki.wikispaces.com/IPP+Everywhere>
- The future of CUPS
- Printers discovered using Bonjour, queried and printed to using IPP and PDF and/or bitmap files (JPEG, CUPS raster, etc.)

# IPP Everywhere

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- Existing network printers and direct-connect printers will continue to be supported using CUPS (PPD-based) drivers, with CUPS exposing these printers as “IPP Everywhere” printers
- Long-term goal is to eliminate the need for printer drivers, PPD files, and complicated printing/driver UI

# Resources

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- CUPS web site:
  - <http://www.cups.org/>
- CUPS roadmap
  - <http://www.cups.org/roadmap.php>
- Printer Working Group web site:
  - <http://www.pwg.org/>
- IPP Everywhere wiki:
  - <http://pwg-wiki.wikispaces.com/IPP+Everywhere>