Rocky Enterprise Linux 9.2 Manual Pages on command 'ipp-usb.8'

$ man ipp-usb.8

IPP-USB(8)   ipp-usb.8   IPP-USB(8)

NAME

   ipp-usb - Daemon for IPP over USB printer support

DESCRIPTION

   ipp-usb daemon enables driver-less printing and scanning on USB-only AirPrint-compatible

   printers and MFPs.

   It works by connecting to the device by USB using IPP-over-USB protocol, and exposing the

   device to the network, including DNS-SD (ZeroConf) advertising.

   IPP printing, eSCL scanning and web console are fully supported.

SYNOPSIS

  Usage:

   ipp-usb mode [options]

  Modes are:

   standalone

       run forever, automatically discover IPP-over-USB devices and serve them all

   udev   like standalone, but exit when last IPP-over-USB device is disconnected

   debug logs duplicated on console, -bg option is ignored

   check check configuration and exit

  Options are

   -bg   run in background (ignored in debug mode)

CONFIGURATION

   ipp-usb searched for its configuration file in two places: 1. /etc/ipp-usb/ipp-usb.conf 2.

   ipp-usb.conf in the directory where executable file is located

Configuration file syntax is very similar to .INI files syntax. It consist of named sec?

tions, and each section contains a set of named variables. Comments are started from # or

; characters and continues until end of line:

```
# This is a comment

[section 1]

variable 1 = value 1  ; and another comment

variable 2 = value 2
```

Network parameters

Network parameters are all in the [network] section:

```
[network]

  # TCP ports for HTTP will be automatically allocated in the following range

  http-min-port = 60000

  http-max-port = 65535

  # Enable or disable DNS-SD advertisement

  dns-sd = enable     # enable | disable

  # Network interface to use. Set to `all` if you want to expose you

  # printer to the local network. This way you can share your printer

  # with other computers in the network, as well as with iOS and Android

  # devices.

  interface = loopback # all | loopback

  # Enable or disable IPv6

  ipv6 = enable       # enable | disable
```

Logging configuration

Logging parameters are all in the [logging] section:

```
[logging]

  # device-log  - what logs are generated per device

  # main-log    - what common logs are generated

  # console-log - what of generated logs goes to console

  #

  # parameter contains a comma-separated list of

  # the following keywords:

  #   error    - error messages

  #   info     - informative messages
```

```
#   debug     - debug messages
#   trace-ipp, trace-escl, trace-http - very detailed per-protocol traces
#   all       - all logs
#   trace-all - alias to all
#
# Note, trace-* implies debug, debug implies info, info implies error
device-log    = all
main-log      = debug
console-log   = debug
# Log rotation parameters:
#   log-file-size    - max log file before rotation. Use suffix M
#                      for megabytes or K for kilobytes
#   log-backup-files - how many backup files to preserve during rotation
#
max-file-size    = 256K
max-backup-files = 5
# Enable or disable ANSI colors on console
console-color = enable # enable | disable
```

Quirks

Some devices, due to their firmware bugs, require special handling, called device-specific quirks. ipp-usb loads quirks from the /usr/share/ipp-usb/quirks/*.conf files and from the /etc/ipp-usb/quirks/*.conf files. The /etc/ipp-usb/quirks directory is for system quirks overrides or admin changes. These files have .INI-file syntax with the content that looks like this:

```
[HP LaserJet MFP M28-M31]
  http-connection = keep-alive
[HP OfficeJet Pro 8730]
  http-connection = close
[HP Inc. HP Laser MFP 135a]
  blacklist = true
# Default configuration
[*]
  http-connection = ""
```

For each discovered device, its model name is matched against sections of the quirks files. The section name contains an exact model name, which contains iManufacturer+iProd‐uct entries from lsusb -v command output, or it may contain glob-style wildcards: * that matches any sequence of characters and ? , that matches any single character. To match one of these characters (* and ?) literally, use backslash as escape.

All matching sections from all quirks files are taken in consideration, and applied in priority order. Priority is computed using the following algorithm:

? When matching model name against section name, amount of non-wildcard matched charac‐ters is counted, and the longer match wins

? Otherwise, section loaded first wins. Files are loaded in alphabetical order, sections read sequentially

If some parameter exist in multiple sections, used its value from the most priority sec‐tion

The following parameters are defined:

blacklist = true | false

    If true, the matching device is ignored by the ipp-usb

http-XXX = YYY

    Set XXX header of the HTTP requests forwarded to device to YYY. If YYY is empty string, XXX header is removed

usb-max-interfaces = N

    Don't use more that N USB interfaces, even if more is available

In case of you found out about your device needs a quirk to work properly or it does not work with ipp-usb at all, although it provides IPP-over-USB interface, please report the isues at https://github.com/OpenPrinting/ipp-usb. The possible quirk for the device can be added to the project itself and fix the situation for all device's owners.

FILES

? /etc/ipp-usb/ipp-usb.conf: the daemon configuration file

? /var/log/ipp-usb/main.log: the main log file

? /var/log/ipp-usb/<DEVICE>.log: per-device log files

? /var/ipp-usb/dev/<DEVICE>.state: device state (HTTP port allocation, DNS-SD name)

? /var/ipp-usb/lock/ipp-usb.lock: lock file, that helps to prevent multiple copies of daemon to run simultaneously

? /usr/share/ipp-usb/quirks/*.conf: device-specific quirks (see above)

? /etc/ipp-usb/quirks/*.conf: device-specific quirks defined by sysadmin (see above)

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SEE ALSO

cups(1)