



# The Printer Working Group

## PWG 2021 State of the Union Summary

Smith Kennedy, PWG Chair

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# PWG 2021 State of the Union

- Mopria and the PWG
- Imaging Device Security (IDS) Workgroup
  - Status and Activities
- PWG Internet Printing Protocol (IPP) Workgroup
  - Core IPP Specifications
  - Recently Approved or Updated PWG Specifications
  - PWG IPP Work In Progress
- Q & A



**The Printer Working Group**

Mopria and the PWG



# Mopria Alliance and the PWG

- Formal Liaison between Mopria and PWG in place
  - Michael Rhines (Qualcomm) is Mopria Alliance's liaison to the PWG
  - Renewed every 2 years
- Even though we have different IPR and confidentiality policies, the PWG wants active communications between the PWG and its partners
  - But there have been difficulties with Mopria or its members communicating with the PWG. We are open to suggestions on how to improve communications between PWG and Mopria
- Majority of Mopria Print technical specification built using PWG and IETF standards
  - Mopria can extend these using their own definitions or create their own normative requirements
- Mopria Alliance or its members should not hesitate to reach out to the PWG with questions or issues relating to PWG specifications or other documents, or the IANA IPP Registry
  - Submit feedback to the PWG via Mopria Liaison to PWG or directly



# The Printer Working Group

Imaging Device Security (IDS)  
Workgroup



# PWG Imaging Device Security

- Secure the Client and Printer to establish and maintain customer faith in the printing ecosystem
  - Protecting communications
  - Protecting information stored at rest
- Define standards and guidelines to make the imaging device (printer) and the act of printing more trusted
  - Protects User Data (document content), Printer data (job ticket) and TSF Data (login credentials, encryption keys)
  - Defines requirements for data access and transport security
- PWG Hardcopy Device Security Guidelines v1.0 (HCDSEC):
  - <https://ftp.pwg.org/pub/pwg/ids/wd/wd-idshcdsec10-20201101.pdf>



# The Printer Working Group

Internet Printing Protocol (IPP)  
Workgroup



# Core IPP Specifications

Lines in **RED** have updates pending; lines in **BLUE** were ratified in the last 2 years

- IETF STD 92: IPP/1.1 (RFC 8010 and RFC 8011)
- **PWG 5100.1-2017: IPP Finishings 2.1 (FIN)**
- **PWG 5100.3-2001: Production Printing Attributes – Set 1**
- **PWG 5100.7-2019: IPP Job Extensions v2.0 (JOBEXT)**
- **PWG 5100.11-2010: IPP: Job and Printer Extensions - Set 2 (JPS2)**
- **PWG 5100.13-2012: IPP: Job and Printer Extensions – Set 3 (JPS3)**
- **PWG 5100.14-2020: IPP Everywhere™ v1.1**
  - **PWG 5100.20-2020: IPP Everywhere™ Printer Self-Certification Manual v1.1 (SELCERT)**
- PWG 5100.15-2014: IPP FaxOut Service
- **PWG 5100.16-2020: IPP Transaction-Based Printing Extensions v1.1**
- PWG 5100.17-2014: IPP Scan Service
- PWG 5100.18-2015: IPP Shared Infrastructure Extensions (INFRA)
- PWG 5100.19-2015: IPP Implementor's Guide v2.0 (IG)
- **PWG 5100.22-2019: IPP System Service v1.0 (SYSTEM)**
- PWG 5101.1-2013: PWG Media Standardized Names 2.0
- PWG 5102.4-2012: PWG Raster Format





# IPP Everywhere™ Certified Printers

- <https://www.pwg.org/ipp/everywhere.html>
- **752** printers now certified!
  - <https://www.pwg.org/printers/>
  - More on the way!
- IPP Everywhere™ Self Certification 1.1 Update 3
  - Released May 17, 2021; approved June 16, 2021
  - **Mandatory for certification starting July 1, 2021**
  - **IPP Everywhere v1.0 Certifications no longer accepted**
- IPP Everywhere™ Self Certification 1.1 Update 4
  - In development; no beta available yet
- IPP Everywhere v2.0 scoping and requirements in development



# Recently Approved

- 2019
  - PWG 5100.22-2019: IPP System Service v1.0 (SYSTEM)
  - PWG 5199.10-2019: IPP Authentication Methods v1.0
  - PWG 5100.7-2019: IPP Job Extensions v2.0 (JOBEXT)
- 2020
  - PWG 5100.14-2020: IPP Everywhere™ v1.1
  - PWG 5100.20-2020: IPP Everywhere™ Printer Self-Certification Manual v1.1 (SELFCERT)
  - PWG 5100.16-2020: IPP Transaction-Based Printing Extensions v1.1
- 2021
  - PWG 5199.11-2021: Job Accounting with IPP v1.0



# Work in Progress 2021-2022

- Deprecating IPP Print by Reference v1.0 Registration
  - Stable draft in Q4 2021
- IPP Finishings v3.0
  - Stable draft in Q4 2021
- IPP Encrypted Jobs and Documents v1.0
  - Stable draft in Q1 2022
- IPP Production Printing Extensions v2.0
  - Stable draft in Q4 2021
- IPP Enterprise Printing Extensions v2.0
  - Stable draft in Q4 2021
- IPP Driverless Printing Extensions v2.0
  - Prototype draft in Q4 2021
- Internet Printing Protocol/2.x Fourth Edition
  - Stable draft in Q1 2022



# Next PWG Face-to-Face Meeting

November 2-4, 2021 : Virtual

Please attend!

Visit the [PWG meeting page](#) for more info.



# Links to Detailed Slides

- This slide set is available here:
  - <https://ftp.pwg.org/pub/pwg/general/presentations/PWG-2021-State-of-the-Union-Summary-20211028.pptx>
  - <https://ftp.pwg.org/pub/pwg/general/presentations/PWG-2021-State-of-the-Union-Summary-20211028.pdf>
- A version with more details on the recently published and updates in progress is available here:
  - <https://ftp.pwg.org/pub/pwg/general/presentations/PWG-2021-State-of-the-Union-20211028.pptx>
  - <https://ftp.pwg.org/pub/pwg/general/presentations/PWG-2021-State-of-the-Union-20211028.pdf>



**The Printer Working Group**

**Thank You!**