Title of Document
(Acronym)

Status: Initial

Abstract: This white paper proposes something really interesting. Provide an abstract for your white paper here.

This is a PWG White Paper. For a definition of a "PWG White Paper", see:

<https://ftp.pwg.org/pub/pwg/general/pwg-process30.pdf>

This white paper is available electronically at:

https://ftp.pwg.org/pub/pwg/general/templates/white-template.docx

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Title: *Title of Document (Acronym)*

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1. Introduction

Provide an introduction for the document.

Figure 1 - An Example Figure

Table 1 - An Example Table

|  |  |  |
| --- | --- | --- |
| Keyword | Description | Conformance |
| One | The first keyword | REQUIRED |
| Two | The second keyword | OPTIONAL |

1. Terminology
	1. Conformance Terminology

Capitalized terms, such as MUST, MUST NOT, RECOMMENDED, REQUIRED, SHOULD, SHOULD NOT, MAY, and OPTIONAL, have special meaning relating to conformance as defined in Key words for use in RFCs to Indicate Requirement Levels [BCP14]. The term CONDITIONALLY REQUIRED is additionally defined for a conformance requirement that applies when a specified condition is true.

The term DEPRECATED is used for previously defined and approved protocol elements that SHOULD NOT be used or implemented. The term OBSOLETE is used for previously defined and approved protocol elements that MUST NOT be used or implemented.

* 1. Printing Terminology

Normative definitions and semantics of printing terms are imported from the Internet Printing Protocol/1.1 [STD92].

*Document*: An object created and managed by a Printer that contains the description, processing, and status information. A Document object may have attached data and is bound to a single Job.

*Job*: An object created and managed by a Printer that contains description, processing, and status information. The Job also contains zero or more Document objects.

*Logical Device*: a print server, software service, or gateway that processes jobs and either forwards or stores the processed job or uses one or more Physical Devices to render output.

*Output Device*: a single Logical or Physical Device

*Physical Device*: a hardware implementation of a endpoint device, e.g., a marking engine, a fax modem, etc.

* 1. Protocol Role Terminology

The following protocol roles are defined to specify unambiguous conformance requirements:

*Client*: Initiator of outgoing connections and sender of outgoing operation requests (Hypertext Transfer Protocol -- HTTP/1.1 [RFC7230] User Agent).

*Printer*: Listener for incoming connections and receiver of incoming operation requests (Hypertext Transfer Protocol -- HTTP/1.1 [RFC7230] Server) that represents one or more Physical Devices or a Logical Device.

* 1. Other Terminology

*Capitalized Term In Italics*: definition of the term with any references as appropriate.

* 1. Acronyms and Organizations

*IANA*: Internet Assigned Numbers Authority, <https://www.iana.org/>

*IETF*: Internet Engineering Task Force, <https://www.ietf.org/>

*ISO*: International Organization for Standardization, <https://www.iso.org/>

*PWG*: Printer Working Group, <https://www.pwg.org/>

1. Rationale

Provide a rationale for the white paper.

* 1. Use Cases

Provide use cases for the white paper in subsections using the casual use case format.

* 1. Exceptions

The following subsections define exceptions in addition to those defined in the Internet Printing Protocol/1.1 [STD92].

Provide exceptions to the use cases using the casual use case format.

* 1. Out of Scope

The following are considered out of scope for this white paper:

1. Definition of foo
2. Protocols for bar
3. Requirements for bla
	1. Design Requirements

The design requirements for this white paper are:

1. Define attributes for foo and bar
2. Define operations for bla

The design recommendations for this white paper are:

1. Support additional "nice to have" use cases
2. Technical Solutions/Approaches

Provide possible technical solutions/approaches in this section. Include pros and cons for each technical solution or approach. Include references to specific protocols and/or data models when appropriate. Include mapping and gateway considerations when appropriate.

1. Internationalization Considerations

*Note: The following boilerplate text may not be sufficient for all purposes. In a standards-track working draft we include conformance requirements (see the wd-template file for details).*

For interoperability and basic support for multiple languages, conforming implementations support:

1. The Universal Character Set (UCS) Transformation Format -- 8 bit (UTF-8) [STD63] encoding of Unicode [UNICODE] [ISO10646]; and
2. The Unicode Format for Network Interchange [RFC5198] which requires transmission of well-formed UTF-8 strings and recommends transmission of normalized UTF-8 strings in Normalization Form C (NFC) [UAX15].

Unicode NFC is defined as the result of performing Canonical Decomposition (into base characters and combining marks) followed by Canonical Composition (into canonical composed characters wherever Unicode has assigned them).

1. Security Considerations

Provide security considerations for this white paper.

1. References

[BCP14] S. Bradner, "Key words for use in RFCs to Indicate Requirement Levels", RFC 2119/BCP 14, March 1997, <https://datatracker.ietf.org/doc/html/rfc2119>

[ISO10646] "Information technology -- Universal Coded Character Set (UCS)", ISO/IEC 10646:2014

[RFC5198] J. Klensin, M. Padlipsky, "Unicode Format for Network Interchange", RFC 5198, March 2008, <https://datatracker.ietf.org/doc/html/rfc5198>

[STD63] F. Yergeau, "UTF-8, a transformation format of ISO 10646", RFC 3629/STD 63, November 2003, <https://datatracker.ietf.org/doc/html/rfc3629>

[STD92] M. Sweet, I. McDonald, "Internet Printing Protocol/1.1", RFC 8010/RFC 8011/STD 92, June 2018, <https://datatracker.ietf.org/doc/html/rfc8010>, <https://datatracker.ietf.org/doc/html/rfc8011>

[UAX15] M. Davis, M. Duerst, "Unicode Normalization Forms", Unicode Standard Annex 15, August 2021, <https://www.unicode.org/reports/tr15>

[UNICODE] Unicode Consortium, "Unicode Standard", Version 14.0.0, September 2021, <https://www.unicode.org/versions/Unicode14.0.0/>

[REFERENCE] F. Last author list or standards body, "Title of referenced document", Document Number, Month YYYY, URL (if any)

1. Authors' Addresses

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Example Company

The authors would also like to thank the following individuals for their contributions to this white paper:

Turanga Leela - Planet Express

Zapp Brannigan - Democratic Order of Planets

1. Change History

This section will be removed when this document is published.

* 1. Month, DD, YYYY

Initial revision.