

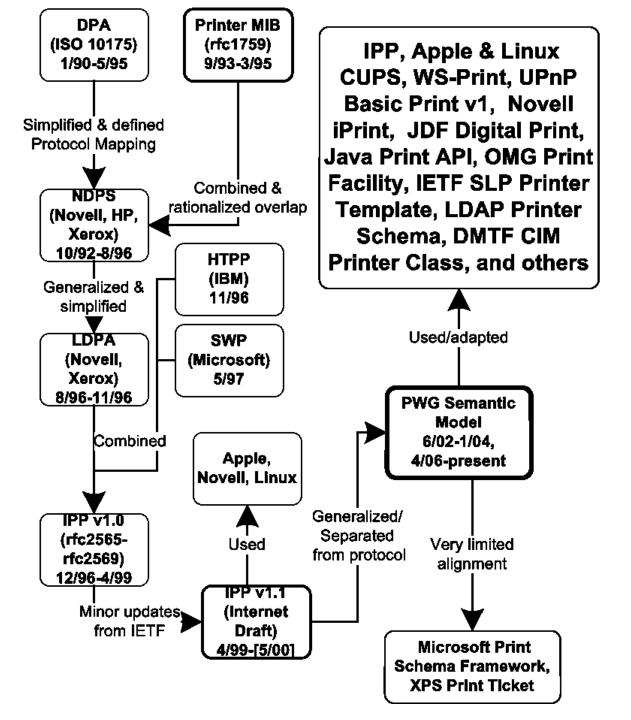
PWG Print Semantics

Its Benefit to Cloud Printing

PWG Print Semantics



- Open Standard
- Vendor neutral
- Designed to be scalable (Subsets and extensions)
- Maps cleanly to existing printer protocols, Print Job Tickets and embedded PDL instructions
- Does not contain Driver specific or UI specific complexities





Print
Semantic
Evolution
and the
PWG

Print Job Ticket



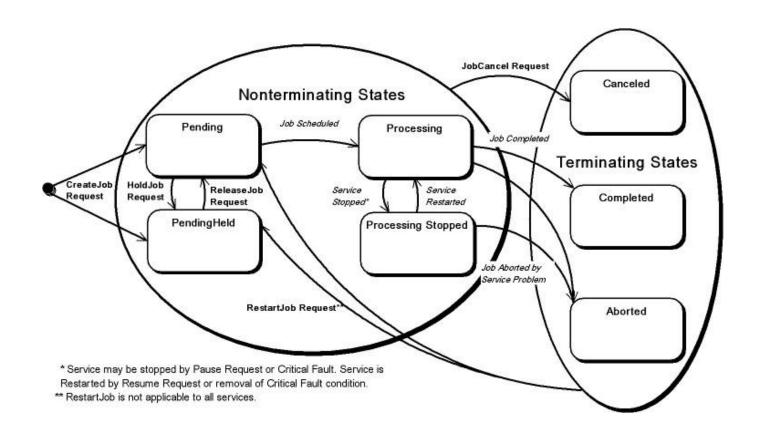
- Derived from standards dating back more than 20 years
- The semantics are used in every modern print protocol
- Large set of semantic elements and values are defined
- Elements and values are extensible
- Semantics scale from home printers to production printers
- Existing semantics include:

Copies	Sides	Media	Media Type
Orientation	Staple	Jog Offset	Number Up
Job Priority	Covers	Insert Sheets	Binding
Job Hold	Job Password	Imposition	Proof Printing
Job Name	Job Owner	Accounting ID	

Job State



- Fixed well defined states and transitions
- Consistent across job types in an MFD



Job State Reasons



- Provides additional information on Job State
- Includes well defined values and is extensible
- Existing values include:

Job Incoming	Job Queued	Job Outgoing	Queued In Device
Job Transforming	Job Printing	Job Completed Successfully	Job Completed With Warnings
Job Completed	Document Access	Digital Signature Did Not Verify	Job Canceled At
With Errors	Error		Device
Resources Are	Job Timed Out	Job Hold Until	Job Password
Not Ready		Specified	Wait





```
<?xml version="1.0" encoding="UTF-8"?>
<pwg:PrintJobTicket xsi:schemaLocation="PrintJobTicket.xsd"</pre>
xmlns:pwg="http://www.pwg.org/schemas/2009/8/sm">
<pwg:PrintDocumentProcessing>
     <pwg:Finishings>
        <pwg:Finishing>Staple/pwg:Finishing>
     </pwg:Finishings>
     <pwg:Media>na_letter_8.5x11in</pwg:Media>
     <pwg:MediaType>stationery/pwg:MediaType>
     <pwg:OrientationRequested>Landscape/pwg:OrientationRequested>
     <pwg:Quality>Normal</pwg:Quality>
     <pwg:Sides>TwoSidedShortEdge</pwg:Sides>
  </pwg:PrintDocumentProcessing>
   <pwg:PrintJobDescription>
     <pwg:JobName>Sample Print Job</pwg:JobName>
     <pwg:JobOriginatingUserName>Hastings</pwg:JobOriginatingUserName>
   </pwg:PrintJobDescription>
   <pwg:PrintJobProcessing>
     <pwg:JobCopies>4</pwg:JobCopies>
   </pwg:PrintJobProcessing>
</pwg:PrintJobTicket>
```

Simple Document Ticket

