- 1 Name of Job Submission Protocol: IETF IPP
- 2 Version of Job Submission Protocol: V1.0, Internet-Draft, 6/3/97
- 3 Is your Job Submission Protocol to a Server (config 2 and 3) or to a Printer (config 1) or
- 4 both: all 3 configurations
- 5 File name (please use file name listed above): ietf-ipp.doc
- 6 Assigned person: Tom Hastings
- 7 Date: 6/14/97
- 8
- 9 Any general mapping problems that apply to a number of attributes, such as length of
- 10 strings, size of integers, ASCII vs. binary encoding of attribute values, etc.:
- 11
- 12 1. IPP names are 255 characters long while JMP names are limited to 63 octets.
- 13
- 14 2. IPP encodes values as UTF-8 keywords (ASCII is a one-octet subset), while JMP uses
- 15 enums for some corresponding attributes (a JMP ISSUE see below).
- 16
- 17

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Attribute or object	pa	Job submission protocol	Notes
	ge	attribute	
The General Group	57		
(Mandatory)			
jmGeneralNumberOfActiveJo	57	queued-job-count	IPP ISSUE: Should/does include
bs	0.	queueu joe count	pendingHeld or not?
jmGeneralOldestActiveJobInd	58		FB
ex	50		
jmGeneralNewestActiveJobIn	58		
dex	50		
jmGeneralJobPersistence	59		
jmGeneralAttributePersistence	59 59		
•	39		
e	50		62 a stata au IDD 255 alcanatana
jmGeneralJobSetName	59	printer-name	63 octets vs. IPP 255 characters
The Job ID Group	60		
(Mandatory)			
jmJobSubmissionID	61		
jmJobSetIndex	61	job-URI?	The JMP agent MAY need to
·		-	convert from a URI to a
			jmJobSetIndex?
			JMP ISSUE: should we add
			a jobIdentifier attribute to
			the attribute table?
		1	
The Job Group (Mandatory)	63		
jmJobState:	64	job-state:	
other	31	other	
pending	31	pending	
pendingHeld	31	pending-held	
penumgneiu	51	penuing-neiu	

processing	31	processing	
processingStopped	32	processing-stopped	
canceled	32	canceled	
aborted	32	aborted	
completed	32	completed	
jmJobStateReasons1:	64	job-state-reasons:	0 bits == IPP 'none'
other	49	other	
JobIncoming	50	job-incoming	
	50	job-outgoing	
jobOutgoing jobHoldSpecified	50	Job-outgoing	
jobHoldUntilSpecified	50	job-hold-until-specified	
jobProcessAfterSpecified	50	job-noid-until-specified	
1	50		
resourcesAreNotReady	50	resources-not-ready	note nome change
deviceStoppedPartly		printer-stopped-partly	note name change
deviceStopped	50	printer-stopped	note name change
jobPrinting	50	job-printing	
jobCanceledByUser	50	canceled-by-user	
jobCanceledByOperator	51	canceled-by-operator	
abortedBySystem	51	· · · · · · · · · · · · · · · · · · ·	IPP uses aborted state only
jobCompletedSuccessfully	51	job-completed-successfully	
jobCompletedWithWarnings	51	job-completed-with-	
		warnings	
jobCompletedWithErrors	51	job-competed-with-errors	
jmNumberOfInterveningJobs	65	number-of-intervening-jobs	
jmJobKOctetsRequested	65	job-k-octets	
jmJobKOctetsProcessed	65	job-k-octets-completed	IPP Issue: processed vs. completed
jmJobImpressionsRequested	66	job-impressions	
jmJobImpressionsCompleted	66	job-impressions-completed	
JmAttributeTypeTC -	33		
attribute type definitions			
other	35		
unknown	35		
Job State attributes	35		
jobStateReasons2	36		
jobStateReasons3	36		
jobStateReasons4	36		
deviceAlertCode	36	printer-state, printer-state- reasons	Mapping approximate
processingMessage	36	job-state-message	
Job Identification attributes	36		
jobOwner (MANDATORY)	36	job-originating-user	63 octets vs. IPP 255 characters
jobAccountName	37		
serverAssignedJobName	37		
jobName	37	job-name	63 octets vs. IPP 255 characters
jobServiceTypes	37		
jobSourceChannelIndex	38		
jobSourcePlatformType	38		
submittingServerName	38		
	38		
submittingApplicationName		ich originating heat	62 optoto yra IDD 255 obarratarra
jobOriginatingHost	38	job-originating-host	63 octets vs. IPP 255 characters

landa Nama Dama da l	20		IDD 255 demonstration
deviceNameRequested	38	printer-name	63 octets vs. IPP 255 characters
queueNameRequested	39		
physicalDevice	39	output-device-assigned	63 octets vs. IPP 255 characters
numberOfDocuments	39		IPP ISSUE: should have read-only
			"number-of-documents" set by
C1-N	20	do ourse out LIDI	Printer
fileName	39	document-URI	JMP ISSUE: clarify that the fileName attribute could be a URI
de sum en 4Nie mee	39	dooumont nome	63 octets vs. IPP 255 characters
documentName	39 39	document-name	05 Octets VS. IPP 255 characters
jobComment documentFormatIndex	39 39		
		do our out forment	The MIME tame as loss more to the
documentFormat	40	document-format	The MIME type value maps to the
			MIME type value, 63 octets vs. IPP 255 characters
	40		
Job Parameter attributes	40		
jobPriority	40	job-priority	
jobProcessAfterDateAndTime	40		
jobHoldUntil	41	job-hold-until	
outputBin	41		
sides	41	sides	map 'one-sided' to 1, 'two-sided-
			long-edge' and 'two-sided-short-
	4.1	C' · 1 ·	edge' to 2
finishing	41	finishings	same values, but map IPP keywords
			to JMP enums. Both can be
			MULTI-VALUED
			JMP ISSUE: also allow
			Octets as supplement?
Image Quality attributes	41		
(requested and used)			
printQualityRequested	42	print-quality	same values, but map IPP keywords
print Quanty requested		Print domity	to JMP enums
			JMP ISSUE: also allow Octets as
	4-		supplement?
printQualityUsed	42	• . • .	
printerResolutionRequested	42	printer-resolution	same values, but map IPP keywords
			to JMP enums
			JMP ISSUE: also allow Octets as
			supplement?
printerResolutionUsed	42		
tonerEcomonyRequested	42		
tonerEcomonyUsed	42		
tonerDensityRequested	42		
tonerDensityUsed	42		
Job Progress attributes	42		
(requested and consumed)			
jobCopiesRequested	42	copies	
jobCopiesCompleted	43		
Jos copies completed	1.5	I	

documentCopiesRequested	43	copies	only >1 documents in the job
documentCopiesCompleted	43	copies	ony >1 documents in the job
jobKOctetsTransferred	43		<u> </u>
Impression attributes	43		
(requested and consumed)			
impressionsSpooled	44		
impressionsSentToDevice	44		
impressionsInterpreted	44		
impressionsCompletedCurrent	44		
Сору			
fullColorImpressionsComplete	44		
d			
highlightColorImpressionsCo	44		
mpleted			
Page attributes (requested and	44		
consumed)			
pagesRequested	44		
pagesCompleted	45		
pagesCompletedCurrentCopy	45		
Sheet attributes (requested	45		
and consumed)			
sheetsRequested	45		
sheetsCompleted	45	job-media-sheets-completed	
sheetsCompletedCurrentCopy	45		
<b>Resource attributes (requested</b>	45		
and consumed)			
mediumRequested	45		
mediumConsumedName	46		
colorantRequested	46		
colorantConsumed	46		
Time attributes (set by server	46		
or device)			
jobSubmissionToServerTime	46		
jobSubmissionToDeviceTime	47		
timeSinceJobWasSubmittedTo	47	time-since-submission	JMP ISSUE: Should this be
Device			seconds or like IPP
			milliseconds?
	47		muuseconas:
jobStartedBeingHeldTimeSta	47		
mp ich Stauto d Duo consin a Time	17		
jobStartedProcessingTime	47		in million con de
timeSinceStartedProcessing	47	time-since-processing	in milliseconds
jobCompletedTime	47	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · ·
timeSinceCompleted	47	time-since-completion	in milliseconds
jobProcessingCPUTime	47		

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IPP job attributes not in JMP are: . job-sheets 19

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- 21 notification-events .
- 22 notification-addresses .

- 23 . multiple-documents-are
- 24 . best-effort
- 25 . job-URI
- 26 . user-locale
- 27 . job-message-from-operator