

1 Subj: Template for Mapping JMP objects/attributes to job submission protocol attributes
2 From: Tom Hastings
3 Date: 06/14/97
4 File: ftp://ftp.pwg.org/pub/pwg/jmp/protomap/jmtmpl2.doc
5

6 Map the objects and attributes of the current Job Monitoring MIB (jmp-mibv.pdf, version
7 0.82 = Internet-Draft 01) to their assigned job submission protocol, so that we can make
8 sure that the specification of each object is clear. The resulting mapping will be
9 incorporated into a separate information RFC. This mapping exercise is like a "paper
10 bakeoff", but is happening *before* we make the specification a proposed standard.

11 By mapping, we mean determine what an agent must do in order to respond to a Get for
12 each JMP object and attribute in order to compute a value from the particular job
13 submission protocol implementation.
14

- 15 1. Copy **jmtmpl2.doc** from
16 ftp://ftp.pwg.org/pub/pwg/jmp/protomap/jmtmpl1.doc.
- 17 2. Fill in the first five lines of information about your job submission protocol
18 immediately after the "cut here" line.
- 19 3. Delete the template before and including the "cut here".
- 20 4. Please go read each attribute, so that you are sure that the mapping is
21 correct and to be part of the review process on the MIB itself. The page
22 numbers correspond to the line numbered version with variable pitch font
23 (jmp-mibv.pdf, V0.82), which is the one we should be using for review. If
24 you find a description that is unclear or ambiguous, please make a note and
25 send as e-mail or enter it in the Notes column here. We need to fix
26 ambiguities now, not after we are a proposed standard.
- 27 5. Edit in the name of each of the job submission protocol attributes that
28 corresponds to each of the object/attribute in the table below. For the
29 attributes that are read-only in your job submission protocol, such as
30 **jmGeneralNumberOfActiveJobs**, **jobState**, and **pagesConsumed**, enter
31 the name of the attribute in your job submission protocol, if it is querable
32 with your job submission protocol, otherwise leave blank.
- 33 6. For objects/attributes that do not have a corresponding attribute in your job
34 submission protocol, please leave blank.
- 35 7. If you aren't sure whether the job attribute you found is correct, put a
36 question mark after the name of your job submission protocol attribute.
- 37 8. Add any notes to the last column labeled NOTES.
- 38 9. Rename your file to the **xxx.doc** file name indicated below for your job
39 submission protocol.

Template for Mapping from Job Submission Protocols to JMP objects/attributes

40 10. Post your file in:
41 **ftp://ftp.external.hp.com/snmpmib/jobs-mib/protomap/xxx.doc**
42 **ftp://ftp.external.hp.com/snmpmib/jobs-mib/protomap/xxx.pdf**

43 11. Send mail to the jmp list indicating that you have posted your mapping.

44
45 I've already copied all of the original files into the **history1** sub-directory under
46 protomap/, so you can use the same file name as before.

Job Submission Protocol	file name	Responsible person
AppleTalk PAP	applepap.doc	Ron Bergman
IETF IPP	ietf-ipp.doc	Tom Hastings
IPDS	ipds.doc	Harry Lewis
ISO DPA	iso-dpa.doc	Tom Hastings
LPR/LPD - RFC 1179, PSIS extensions	lpr-lpd.doc	Ron Bergman
NDPS	ndps.doc	Scott Isaacson
PJL	pjl.doc	Bob Pennacost
PostScript	ps.doc	Bob Setterbo
PSEVER	pserver.doc	Scott Isaacson
RPRINTER	rprinter.doc	Scott Isaacson
SMB	smb.doc	Bob Setterbo
TIPSI/NPAP	tipsi.doc	Don Wright

47
48 <----- cut here ----->

Template for Mapping from Job Submission Protocols to JMP objects/attributes

49 PLEASE FILL IN THE FOLLOWING:

50 Name of Job Submission Protocol:

51 Version of Job Submission Protocol:

52 Is your Job Submission Protocol to a Server (config 2 and 3) or to a Printer (config 1) or
53 both:

54 File name (please use file name listed above):

55 Assigned person:

56 Date:

57

58 Any general mapping problems that apply to a number of attributes, such as length of
59 strings, size of integers, ASCII vs. binary encoding of attribute values, etc.:

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61 1.

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63

Attribute or object	page	Job submission protocol attribute	Notes
The General Group (Mandatory)	57		
jmGeneralNumberOfActiveJobs	57		
jmGeneralOldestActiveJobIndex	58		
jmGeneralNewestActiveJobIndex	58		
jmGeneralJobPersistence	59		
jmGeneralAttributePersistence	59		
jmGeneralJobSetName	59		
The Job ID Group (Mandatory)	60		
jmJobSubmissionID	61		
jmJobIndex	62		
The Job Group (Mandatory)	63		
jmJobState:	64		
other	31		
pending	31		
pendingHeld	31		
processing	31		
processingStopped	32		
canceled	32		
aborted	32		
completed	32		
jmJobStateReasons1:	64		
other	49		

Template for Mapping from Job Submission Protocols to JMP objects/attributes

JobIncoming	50		
jobOutgoing	50		
jobHoldSpecified	50		
jobHoldUntilSpecified	50		
jobProcessAfterSpecified	50		
resourcesAreNotReady	50		
deviceStoppedPartly	50		
deviceStopped	50		
jobPrinting	50		
jobCanceledByUser	50		
jobCanceledByOperator	51		
abortedBySystem	51		
jobCompletedSuccessfully	51		
jobCompletedWithWarnings	51		
jobCompletedWithErrors	51		
jmNumberOfInterveningJobs	65		
jmJobKOctetsRequested	65		
jmJobKOctetsProcessed	65		
jmJobImpressionsRequested	66		
jmJobImpressionsCompleted	66		
JmAttributeTypeTC - attribute type definitions	33		
other	35		
unknown	35		
Job State attributes	35		
jobStateReasons2	36		
jobStateReasons3	36		
jobStateReasons4	36		
deviceAlertCode	36		
processingMessage	36		
Job Identification attributes	36		
jobOwner (MANDATORY)	36		
jobAccountName	37		
serverAssignedJobName	37		
jobName	37		
jobServiceTypes	37		
jobSourceChannelIndex	38		
jobSourcePlatformType	38		
submittingServerName	38		
submittingApplicationName	38		
jobOriginatingHost	38		
deviceNameRequested	38		
queueNameRequested	39		
physicalDevice	39		
numberOfDocuments	39		
fileName	39		
documentName	39		
jobComment	39		
documentFormatIndex	39		
documentFormat	40		

Template for Mapping from Job Submission Protocols to JMP objects/attributes

Job Parameter attributes	40		
jobPriority	40		
jobProcessAfterDateAndTime	40		
jobHoldUntil	41		
outputBin	41		
sides	41		
finishing	41		
Image Quality attributes (requested and used)	41		
printQualityRequested	42		
printQualityUsed	42		
printerResolutionRequested	42		
printerResolutionUsed	42		
tonerEcomonyRequested	42		
tonerEcomonyUsed	42		
tonerDensityRequested	42		
tonerDensityUsed	42		
Job Progress attributes (requested and consumed)	42		
jobCopiesRequested	42		
jobCopiesCompleted	43		
documentCopiesRequested	43		
documentCopiesCompleted	43		
jobKOctetsTransferred	43		
Impression attributes (requested and consumed)	43		
impressionsSpooled	44		
impressionsSentToDevice	44		
impressionsInterpreted	44		
impressionsCompletedCurrent Copy	44		
fullColorImpressionsCompleted	44		
highlightColorImpressionsCompleted	44		
Page attributes (requested and consumed)	44		
pagesRequested	44		
pagesCompleted	45		
pagesCompletedCurrentCopy	45		
Sheet attributes (requested and consumed)	45		
sheetsRequested	45		
sheetsCompleted	45		
sheetsCompletedCurrentCopy	45		
Resource attributes (requested and consumed)	45		
mediumRequested	45		
mediumConsumedName	46		

Template for Mapping from Job Submission Protocols to JMP objects/attributes

colorantRequested	46		
colorantConsumed	46		
Time attributes (set by server or device)	46		
jobSubmissionToServerTime	46		
jobSubmissionToDeviceTime	47		
timeSinceJobWasSubmittedToDevice	47		
jobStartedBeingHeldTimeStamp	47		
jobStartedProcessingTime	47		
timeSinceStartedProcessing	47		
jobCompletedTime	47		
timeSinceCompleted	47		
jobProcessingCPUTime	47		

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65 The following attributes in the job submission protocol do not appear in the Job

66 Monitoring MIB:

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