7/8/96

Tom:

Looks good! I made only some minor changes. Talk to you tomorrow (Tuesday)
at 1:30.

        Ron

Subj: Pruned Summary of Mappings of Job Submission attributes to JMP
objects/attributes
From: Tom Hastings
Date: 06/28/96
File: ftp://ftp.external.hp.com/snmpmib/jobs-mib/protomap/map-sum1.doc .ps
Status: Jub submission protocol mappings (protomap.doc) with text removed. Pruned
from map-summ.doc at the 6/28/96 JMP meeting. Reduced 69 objects to 36 objects
(though Resources requested and Consumables consumed are a total of from 3 to 6
objects).

The object/attributes are divided into the following categories:
        1. Job Identification (I)
        2. Job Status and Accounting (S)
        3. Job Parameters (P)

In the following table, duplicates have been combined into a single object and put into the
Job Status and Accounting group. Objects marked with a leading ** are ones that were
not in our original brainstorming list. Combined objects from the original 69 are not
marked with **, since they were counted in the job protocol survey.

Mappings from Job Submission Protocols to JMP objects/attributes

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Job Identification (I)	ISO DPA	Apple PAP	IPDS	LPRL PD	NDP S	PJL	PSER VER	SM B	TIPS I
1. Job id on original client	x	x		x	x		x	x	*x*
2. Job id on device (printer)	x		x		x	x	x		**x**
3. Job id on upstream server implementing the JM MIB	x		x	x	x	x		x	
4. Job id on downstream server implementing the JM MIB	x		x	x	x	x		x	
5. Job type (print, fax, scan, etc.) - multi-valued (sub-jobs?)			x		x			x	
6. User name that originally submitting print job	x	x	x		x		x	x	*x*
7. Source port/channel type (enum from Printer MIB)		x		x					**x**
8. Source port		x		x					**x**
9. Job name assigned by end-user	x		x		x	x	x		
10. Document name(s) (or file-names)	x	x	x	x	x		x		x
11. Date/Time of job submission by end-user	x				x		x	x	
12. Job comment	x				x	x	x		*x*
13. Device-specific name of device	x		x		x				**x**

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Job Parameters (J)	ISO DPA	Apple PAP	IPDS	LPRL PD	NDP S	PJL	PSER VER	SM B	TIPS I
1. Number of copies requested	x				x	x	x		
2. Media path requested (one-sided, two-sided, LEF, SEF)	x		x		x	x			*x*
3. PDLs requested	x			x	x	x			*x*
4. Job priority	x				x				*x*
5. Resources requested, including media, finishing, color ink. Presumably a type (enum) indicating the kind of resource and a name (text string) for each resource. Relates to Consumables consumed.									

Mappings from Job Submission Protocols to JMP objects/attributes

6. Destination (including phone numbers for FAX, logical printers for printing)	x		x			x			
7. ** process-after-time	x								
8. ** job-message-to-operator from submitting user or device	x								

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Job Status and Accounting (S)	ISO DPA	Apple PAP	IPDS	LPRL PD	NDP S	PJL	PSER VER	SM B	TIPS I
1. Job state (held, pending, processing, printing, completed, etc.)	x	x		x	x	x		x	**x**
2. Physical device(s) being used	x				x		x		**x**
3. Job state reasons - additional information about the job state: reasons being held, additional executing information such as device(s) needs attention, additional completed information such as successful, warnings, or errors. (whether bits or text string is TBD).	x		x		x	**x**			**x**
4. Octets completed	x				x				**x**
5. Impressions (sides) completed ~~executed so far~~	x				x	x			
6. Sheets completed ~~executed so far~~	x				x				
7. Processing time completed ~~used so far~~	x				x				
8. Date/Time of day job started processing on device	x				x				**x**
9. Date/Time of day job finished using the device									
10. ~~** interpreter~~ warning count	x								
11. ~~** interpreter~~ error-count	x								
12. ~~** printer problem count~~									
13. ** number of pending jobs currently scheduled to process before this job	x								
14. Account Name	x				x				**x**
15. Consumables consumed. Presumably a type (enum) indicating the kind of resource, a name (text string) for each resource, and an amount (and maybe an enum to indicate what units the amount is in). Relates to Resources requested.									**x**

Mappings from Job Submission Protocols to JMP objects/attributes

16. (See #2)Devices used	x							**x**
17. PDLs used	x							**x**

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