

Caldera Job-Export Info Node specification

Caldera V9.20
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1. Introduction

This document specifies the /Job/Info node found in Job-Export XML files. The “Info” node contains several print-related information and status, usually displayed in the Caldera Spooler.

All of the following node descriptions are relative to /Job/Info path.

Since Caldera 9.20, this specification describes also the contents of cal:Status nodes of JDF tickets sent from Caldera Bridge. However, the Bridge add some specific informations that are not described here. See CalderaJDF specification for details. Moreover, the NestInfo node is not written by the Bridge.

2. Specification

Path	job_id
Description	Caldera internal ID of the job. This is the same value as the first part of the Job-Export XML file.
Values	Integer
Required	Always

Path	job_name
Description	Name of the job as shown in Caldera Spooler.
Values	UTF-8 encoded string
Required	Always

Path	job_state		
Description	State of the job.		
Values	Idx	Value (grayed values are not reported currently)	
	0	Waiting	Job is waiting
	1	<i>Running</i>	<i>Job is being printed or ripped.</i>
	2	<i>Blocked</i>	<i>Job has been blocked.</i>
	3	Finished	Job printed or ripped, printable.
	4	<i>Aborted</i>	<i>Job has been aborted</i>

	5	Error	Job is in error state.
	6	Coming up	Job is being received by the server
	7	Finished	Job printed, discarded (not printable)
Required	Always		
Notes	<ul style="list-style-type: none"> • “Error” status is used also for aborted jobs. “Aborted” status is currently never reported. • “Finished” state does not necessarily mean that job has been printed. Use “nb_printed” value to get number of really printed copies. Ripped job will have “Finished” state and nb_printed = 0, and so will nested jobs. • “Coming up” can be seen on waiting Autonest jobs. This will probably change in the future. Consider this state as “Waiting”. • “Running” and “Blocked” states are currently never reported. Job will appear as “Waiting” (or “Coming up”) 		

Path	job_error
Description	Job error
Values	UTF-8 encoded string
Required	Present only if job_state = “Error”. Introduced in Caldera 9.20.

Path	nb_printed
Description	Total number of copies printed.
Values	Integer
Required	Only printed and ripped jobs. Never used with nested jobs.
Notes	<ul style="list-style-type: none"> • When a job is printed again from the spooler, the number of new copies is added to the previous value. • When this field is present and has 0 value, that means the job was ripped but not yet printed. • With offline printers it is supposed that requested number of copies was printed. Value of “nb_printed” will be automatically increased by number of requested copies when the job is state is “Finished” • Warning: The old field “nb_copies” is no more present. It was confusing and often misused. If needed, requested number of copies can be obtained from PrintConfig/nb_copies node (see PrintConfig XML specification)

Path	create_time
Description	Date when the job was created.
Values	UTF-8 encoded string of the date (for example “Fri Jul 27 16:51:20 2012”)
Attributes	timestamp Timestamp value in number of seconds from 01/01/1970
Required	Always

Path	begin_time	
Description	Date when the job operation started (print or rip)	
Values	UTF-8 encoded string of the date (for example “Fri Jul 27 16:51:20 2012”)	
Attributes	timestamp	Timestamp value in number of seconds from 01/01/1970
Required	Only printed or ripped jobs. Never used with nested jobs.	

Path	op_time	
Description	Date when the job operation ended (print or rip)	
Values	UTF-8 encoded string of the date (for example “Fri Jul 27 16:51:20 2012”)	
Attributes	timestamp	Timestamp value in number of seconds from 01/01/1970
Required	Only printed or ripped jobs. Never used with nested jobs.	

Path	print_time	
Description	Printing time in seconds.	
Values	Integer	
Required	Only printed or ripped jobs. Never used with nested jobs.	
Notes	op_time = begin_time + print_time	

Path	job_mode	
Description	Undocumented	
Required	Always	

Path	print_width print_height	
Description	Printing dimensions of the image (in inches)	
Values	Float	
Required	Autonest jobs: only when “Finished” state. Other jobs: always	

Path	media_width media_height	
Description	Dimensions of media used by the job (in inches)	
Values	Float	
Required	Nested jobs: never used Autonest jobs: only when “Finished” state Other jobs: always	

Path	media_usage_ratio
Description	Ratio of the printed image and used media.
Values	Float between 0 and 1. Value of 0.75 for example means that printed image uses 75% of used media.
Required	Nested jobs: never used Autonest jobs: only when “Finished” state Other jobs: always
Notes	On Autonest jobs this value is the real coverage efficiency as given by nesting algorithm. On other jobs this is simply equal to (print_width * print_height) / (media_width * media_height)

Path	ink_cons
Description	Total volume of used ink (in ml) for the last copy
Values	none
Attributes	total Total volume of all inks in ml.
Required	Printed jobs only, if CostProof feature is supported by print server.
Notes	<ul style="list-style-type: none"> Jobs in contone mode (RGB, CMYK8) usually will not have the ink reported (excepted some printers, like HP) Reported ink volume is for the last copy only. That means if the job has been printed 3 times (nb_printed = 3), you have to multiply all volumes by 3 to get the overall used ink volume. Warning, on printers that report the real ink consumption, the ink volumes can vary between two copies ! Reported ink volume is most often only an estimation. Only some printers (like HP printers) report the real values.

Path	ink_cons/ink
Description	Detail of specific ink consumption (in ml) for the last copy
Values	Volume of used ink (ml)
Attributes	name Name of the ink (Cyan, Magenta,...) short Short name of the ink (C, M, Y, K, c, m, ...)
Required	Printed jobs only, if CostProof feature is supported by print server.
Notes	See notes for “ink_cons”

Path	server_name
Description	Name of the print server
Values	UTF-8 encoded string
Required	Always. Introduced in Caldera 9.20.

Path	server_host
Description	IP address of the host which is running the print server.
Values	IP address.
Required	Always. Introduced in Caldera 9.20.131112 + BridgeMisc5.

3. Examples

a) Online printer, single job

```

<Info>
  <print_width unit="Inchs">7.210000</print_width>
  <print_height unit="Inchs">4.790000</print_height>
  <media_width unit="Inchs">24.000000</media_width>
  <media_height unit="Inchs">5.570000</media_height>
  <media_usage_ratio>0.258348</media_usage_ratio>
  <job_id>367</job_id>
  <job_name>reflets_rouges.JPG</job_name>
  <job_state idx="3">Finished</job_state>
  <create_time timestamp="1343641495">Mon Jul 30 11:44:55 2012</create_time>
  <job_mode idx="0">RASTER</job_mode>
  <nb_printed>1</nb_printed>
  <begin_time timestamp="1343641496">Mon Jul 30 11:44:56 2012</begin_time>
  <print_time_sec>116</print_time_sec>
  <op_time timestamp="1343641612">Mon Jul 30 11:46:52 2012</op_time>
  <ink_cons unit="ml" total="0.522000">
    <ink name="Cyan" short="C" unit="ml">0.100000</ink>
    <ink name="Magenta" short="M" unit="ml">0.135000</ink>
    <ink name="Yellow" short="Y" unit="ml">0.143000</ink>
    <ink name="Black" short="K" unit="ml">0.059000</ink>
    <ink name="LightCyan" short="c" unit="ml">0.036000</ink>
    <ink name="LightMagenta" short="m" unit="ml">0.028000</ink>
    <ink name="LightBlack" short="k" unit="ml">0.021000</ink>
  </ink_cons>
</Info>

```

b) Offline printer, single job, contone mode (no ink report):

```

<Info>
  <print_width unit="Inchs">25.002500</print_width>
  <print_height unit="Inchs">16.610000</print_height>
  <media_width unit="Inchs">62.992500</media_width>
  <media_height unit="Inchs">16.610000</media_height>
  <media_usage_ratio>0.396912</media_usage_ratio>
  <job_id>30</job_id>
  <job_name>cerisier.tif</job_name>
  <job_state idx="3">Finished</job_state>
  <create_time timestamp="1343641346">Mon Jul 30 11:42:26 2012</create_time>

```

```
<job_mode idx="0">RASTER</job_mode>
<nb_printed>1</nb_printed>
<begin_time timestamp="1343641346">Mon Jul 30 11:42:26 2012</begin_time>
<print_time_sec>7</print_time_sec>
<op_time timestamp="1343641353">Mon Jul 30 11:42:33 2012</op_time>
</Info>
```

c) Online printer, Autonest job

```
<Info>
  <job_id>369</job_id>
  <job_name>Autonest #63 (finalized)</job_name>
  <job_state idx="3">Finished</job_state>
  <create_time timestamp="1343641718">Mon Jul 30 11:48:38 2012</create_time>
  <job_mode idx="1">EDITOR</job_mode>
  <print_width unit="Inchs">14.420000</print_width>
  <print_height unit="Inchs">4.790000</print_height>
  <media_width unit="Inchs">24.000000</media_width>
  <media_height unit="Inchs">5.183333</media_height>
  <media_usage_ratio>0.610819</media_usage_ratio>
  <nb_printed>1</nb_printed>
  <begin_time timestamp="1343641753">Mon Jul 30 11:49:13 2012</begin_time>
  <print_time_sec>57</print_time_sec>
  <op_time timestamp="1343641810">Mon Jul 30 11:50:10 2012</op_time>
  <ink_cons unit="ml" total="0.628000">
    <ink name="Cyan" short="C" unit="ml">0.125000</ink>
    <ink name="Magenta" short="M" unit="ml">0.153000</ink>
    <ink name="Yellow" short="Y" unit="ml">0.194000</ink>
    <ink name="Black" short="K" unit="ml">0.035000</ink>
    <ink name="LightCyan" short="c" unit="ml">0.057000</ink>
    <ink name="LightMagenta" short="m" unit="ml">0.053000</ink>
    <ink name="LightBlack" short="k" unit="ml">0.011000</ink>
  </ink_cons>
</Info>
<NestInfo>
  <Nested_Contents>
    <job id="368" page="1" copy="1"/>
    <job id="370" page="1" copy="1"/>
  </Nested_Contents>
</NestInfo>
```

d) Online printer, nested job

```
<Info>
  <print_width unit="Inchs">7.210000</print_width>
  <print_height unit="Inchs">4.790000</print_height>
  <job_id>370</job_id>
  <job_name>cerisier.tif</job_name>
  <job_state idx="3">Finished</job_state>
  <create_time timestamp="1343641748">Mon Jul 30 11:49:08 2012</create_time>
  <job_mode idx="0">RASTER</job_mode>
</Info>
```

```
<NestInfo>  
  <Nested_In>  
    <job id="369" page="1" copy="1"/>  
  </Nested_In>  
</NestInfo>
```