

```

1  <!DOCTYPE request [
2
3  <!-- the message prologue /header/ -->
4  <!ELEMENT prologue ( message.version , operation.type, misc* )>
5
6  <!ELEMENT message.version (#PCDATA)>
7  <!ELEMENT operation.type (#PCDATA)>
8  <!-- should be a defined type print-job, query, etc -->
9  <!ELEMENT misc (#PCDATA)>
10 <!-- random data, zero or more allowed for client brand/whatever -->
11
12
13 <!-- this is the list of 'registered' attributes -->
14 <!-- this should include ALL attributes in the spec -->
15 <!ELEMENT printer.uri (#PCDATA)>
16 <!ELEMENT attributes.charset (#PCDATA)>
17 <!ELEMENT attributes.natural.lanugage (#PCDATA)>
18 <!ELEMENT requesting.user.name (#PCDATA)>
19 <!ELEMENT job.name (#PCDATA) >
20 <!ELEMENT ipp.attribute.fidelity ( #PCDATA )>
21 <!ELEMENT document.name ( #PCDATA) >
22 <!ELEMENT compression ( #PCDATA) >
23 <!ELEMENT job.k.octets ( #PCDATA )>
24 <!ELEMENT job.impressions ( #PCDATA )>
25 <!ELEMENT job.media.sheets ( #PCDATA; )>
26
27 <!-- definition for datalink -->
28 <!-- this is a uri to the data, I dont think we need both -->
29 <!-- print URI and print job.  print job just has a CID -->
30 <!-- CID is a url which points to a part in a multipart mime message -->
31 <!ELEMENT datalinkURI (#PCDATA)>
32
33 <!-- for the spec, we dictate which attributes are -->
34 <!-- allowed in for each operation type          -->
35
36 <!ENTITY % print.job.mand " ipp.printer.uri
37     | attributes.charset
38     | attributes.natural.language
39     | requesting.user.name">
40
41 <!ENTITY % print.job.opt " ( job.name
42     | ipp.attribute.fidelity
43     | document.name
44     | document.format
45     | document.natural.languague
46     | compression string
47     | job.k.octets integer
48     | job.impressions integer
49     | job.media.sheets integer )*"
50
51 <!-- now we define the actual message -->
52 <!ELEMENT ipp.request ( prologue, oper.attr , job.attr?, datalinkURI? )>
53 <!-- prologue, oper.attr are required, job.attr and datalinkURI are opt -->
54 <!ELEMENT oper.attr ( &print.job.mand; ,&print.job.opt; )>

```

```
55 <!ELEMENT job.attr ( &job.attr.list; )*>  
56  
57  
58  
59
```