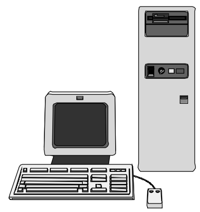
Locating a Printer

Flows based on Service Location Protocol
draft-ietf-svrloc-protocol-13.txt

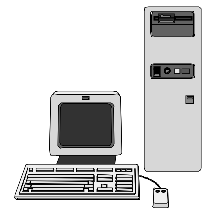
User Agent

Joe@mycomp.com

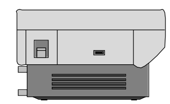
Directory Agent



Server



Server1.mycomp.com



prt06

←

Register service: htpp://Server1.mycomp.com
Attributes: ((Scope = admin),
(Color = color, mono),
(Language = Postscript/2.0),
(Location = 2nd floor)
(PrinterName = prt06))

→

htpp://(Location == 2nd floor)

←

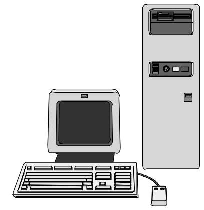
service: htpp://Server1.mycomp.com
Attributes: ((Scope = admin),
(Color = color, mono),
(Language = Postscript/2.0),
(Location = 2nd floor)
(PrinterName = prt06))

Pushing a Print Job

User Agent

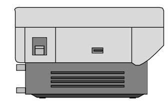
Joe@mycomp.com

Server



Server

Server1.mycomp.com



prt06

Print htpp://prt06 htpp/1.0
Job-Specification header
  Job Client ID : To-mom
  Job Type : print
  Job Owner : Joe@mycomp.com
  Job Name : Joe
Job-Ticket Header
  Media : iso-a4-white
  Plex : duplex
Document-Content Header(Content-type=Postscript/2.0)
  Document in Postscript/2.0 format

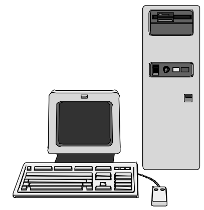
htpp/1.0 202 "job accepted and queued"
Response header
  Print-ID-on-Server : job#00235

Querying the Printer

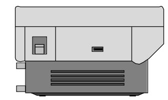
User Agent

Joe@mycomp.com

Server



Server1.mycomp.com



prt06

ListObjectAttributes htpp://prt06 htpp/1.0
Attribute-List header
Media :
Language :
Plex:

get printer MIB

printer MIB

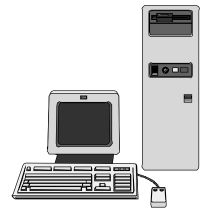
htpp/1.0 200 "ListObjectAttributes accepted"
Attribute-List header
Media : na-letter-white, na-legal-white, na-letter-blue
Language : Postscript/2.0, Postscript/3.0
Plex: duplex, simplex

Querying the Print Job (Job queued)

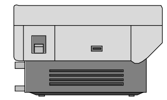
User Agent

Joe@mycomp.com

Server



Server1.mycomp.com



prt06

ListObjectAttributes htpp://job#00235 htpp/1.0

Attribute-List header

Job State :

Number of Jobs pending :

htpp/1.0 200 "ListObjectAttributes accepted"

Attribute-List header

Job State: processing

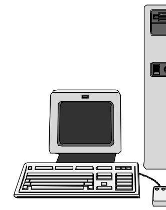
Number of Jobs pending : 3

Querying the Print Job (printer condition)

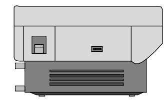
User Agent

Joe@mycomp.com

Server



Server1.mycomp.com



prt06

ListObjectAttributes htpp://job#00235 htpp/1.0

Attribute-List header

Job State :

Number of Jobs pending :

htpp/1.0 200 "ListObjectAttributes accepted"

Attribute-List header

Job State: pending (device needs attention)

Number of Jobs pending : 3

ListObjectAttributes htpp://prt06 htpp/1.0

Attribute-List header

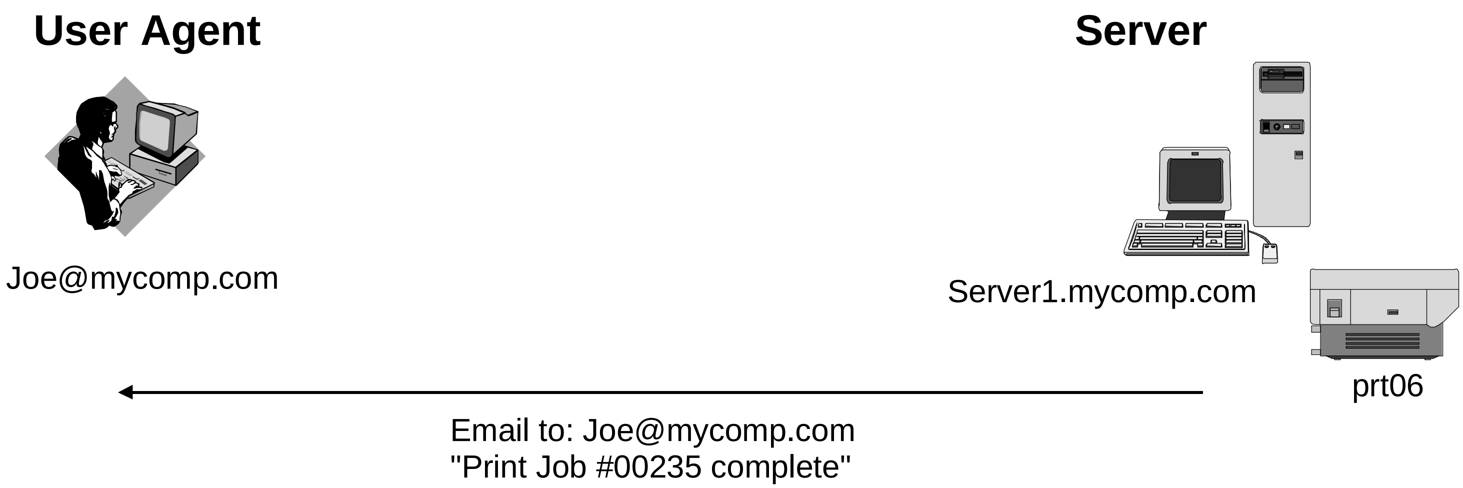
Printer Status :

htpp/1.0 200 "ListObjectAttributes accepted"

Attribute-List header

Printer Status : noPaper

Print Job Complete (Email)

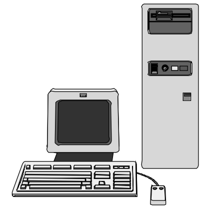


Pulling a Print Job

User Agent

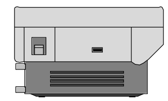
Joe@mycomp.com

Server



Server

Server1.mycomp.com



prt06

Print htpp://prt06 htpp/1.0
Job-Specification header
   Job Client ID : To-mom
   Job Type : print
   Job Owner : Joe@mycomp.com
   Job Name : Joe
Job-Ticket Header
   Media : iso-a4-white
   Plex : duplex
Document-Content Header(Content-type=url)
   htpp://Joe.mycomp.com/Docs/To-mom.ps

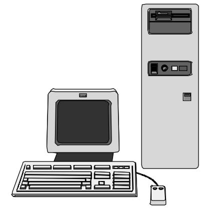
htpp/1.0 202 "job accepted and queued"
Response header
   Print-ID-on-Server : job#00235

Pulling a Print Job (continued)

User Agent

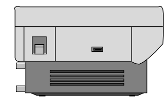
Joe@mycomp.com

Server



Server1.mycomp.com

Server



prt06

Get htpp://Joe.mycomp.com/Docs/To-mom.ps

htpp/1.0   200   "Accepted"

Document content header

Document ontent in Postscript format