package lte;

import java.io.ObjectInputStream;

import java.io.ObjectOutputStream;

import java.net.ServerSocket;

import java.net.Socket;

import java.util.Vector;

import javax.swing.JOptionPane;

public class Intermediatesockreceiver extends Thread

{

public String sysno,portno,node,traffic;

IntermediateController ic;

Intermediatemultireceiver imr;

int count=0;

public Intermediatesockreceiver(String node,String sysno,String portno,String traffic,IntermediateController ic,Intermediatemultireceiver imr)

{

this.node = node;

this.sysno = sysno;

this.portno = portno;

this.traffic = traffic;

this.ic = ic;

this.imr = imr;

start();

}

public void run()

{

try

{

ServerSocket ss = new ServerSocket(Integer.parseInt(portno));

while (true)

{

Socket s = ss.accept();

ObjectInputStream ois = new ObjectInputStream(s.getInputStream());

String status = (String) ois.readObject();

if (status.equalsIgnoreCase("pathSplit"))

{

String localgateway = (String)ois.readObject();

String internode = (String)ois.readObject();

String source = (String)ois.readObject();

String videoname = (String)ois.readObject();

String path = (String)ois.readObject();

if(ic.pathob.get(0).getColumndestination().equals(""))

{

ic.pathob.clear();

}

ic.pathob.add(new Flowsplitting(source, source, localgateway));

}

else if (status.equalsIgnoreCase("Costbasedpathtointermediate"))

{

String path = (String)ois.readObject();

String dest = (String)ois.readObject();

String intermediate = (String)ois.readObject();

String source = (String)ois.readObject();

String videoname = (String)ois.readObject();

if(ic.pathob.get(0).getColumndestination().equals(""))

{

ic.pathob.clear();

}

ic.pathob.add(new Flowsplitting(source, source, dest));

}

else if(status.equalsIgnoreCase("Servevideoatlocalgateway"))

{

// int videosize = (int)ois.readObject();

String streampath = (String)ois.readObject();

String videoname = (String)ois.readObject();

Vector pathvect = (Vector)ois.readObject();

byte[] video = (byte[])ois.readObject();

JOptionPane.showMessageDialog(null,videoname+" send to intermediate "+this.node);

pathvect.remove(0);

if(!pathvect.isEmpty())

{

String nextnode =(String)pathvect.firstElement();

String sys = (String)imr.allnodesys.get(nextnode);

String port = (String)imr.allnodeport.get(nextnode);

JOptionPane.showMessageDialog(null,videoname+" send to destination "+nextnode);

s = new Socket(sys, Integer.parseInt(port));

ObjectOutputStream oos = new ObjectOutputStream(s.getOutputStream());

oos.writeObject("Servevideotouser");

// oos.writeObject(videosize);

oos.writeObject(streampath);

oos.writeObject(videoname);

oos.writeObject(pathvect);

oos.writeObject(video);

oos.close();

s.close();

}

}

else if(status.equalsIgnoreCase("sendtointermediate"))

{

String source = (String)ois.readObject();

String location = (String)ois.readObject();

String videoname = (String)ois.readObject();

if(ic.pathob.get(0).getColumndestination().equals(""))

{

ic.pathob.clear();

}

ic.pathob.add(new Flowsplitting(source, source, location));

}

else if(status.equalsIgnoreCase("Downloadintermediate"))

{

String currentfile = (String)ois.readObject();

int packet = (Integer)ois.readObject();

String path = (String)ois.readObject();

String videoname = (String)ois.readObject();

Vector vvv = (Vector)ois.readObject();

byte[] bb = (byte[])ois.readObject();

vvv.remove(0);

String nextnode = (String)vvv.firstElement();

String sys = (String)imr.allnodesys.get(nextnode);

String port = (String)imr.allnodeport.get(nextnode);

s = new Socket(sys, Integer.parseInt(port));

ObjectOutputStream oos = new ObjectOutputStream(s.getOutputStream());

oos.writeObject("DOWNLOADSOURCE");

oos.writeObject(currentfile);

oos.writeObject(packet);

oos.writeObject(path);

oos.writeObject(videoname);

oos.writeObject(vvv);

oos.writeObject(bb);

oos.close();

s.close();

}

else if(status.equalsIgnoreCase("Streampath"))

{

String path = (String)ois.readObject();

String videoname = (String)ois.readObject();

Vector vvv = (Vector)ois.readObject();

byte[] bb = (byte[])ois.readObject();

vvv.remove(0);

String nextnode = (String)vvv.firstElement();

String sys = (String)imr.allnodesys.get(nextnode);

String port = (String)imr.allnodeport.get(nextnode);

s = new Socket(sys, Integer.parseInt(port));

ObjectOutputStream oos = new ObjectOutputStream(s.getOutputStream());

oos.writeObject("Servevideotouser");

oos.writeObject(path);

oos.writeObject(videoname);

oos.writeObject(vvv);

oos.writeObject(bb);

oos.close();

s.close();

}

}

}

catch(Exception e)

{

e.printStackTrace();

}

}

}