

How to play video streaming in Java ME

 This article needs to be updated: If you found this article useful, please fix the problems below then delete the {{ArticleNeedsUpdate}} template from the article to remove this warning.

Reasons: hamishwillee ([talk](#)) (29 Jul 2013)

There are many reported errors in the comments.

The simple example MIDlet displays on how to play RTSP video streaming in Java ME.

```
package example;

import javax.microedition.lcdui.Alert;
import javax.microedition.lcdui.AlertType;
import javax.microedition.lcdui.Canvas;
import javax.microedition.lcdui.Command;
import javax.microedition.lcdui.CommandListener;
import javax.microedition.lcdui.Display;
import javax.microedition.lcdui.Displayable;
import javax.microedition.lcdui.Font;
import javax.microedition.lcdui.Graphics;
import javax.microedition.lcdui.Ticker;
import javax.microedition.media.Manager;
import javax.microedition.media.Player;
import javax.microedition.media.PlayerListener;
import javax.microedition.media.control.VideoControl;

public class VideoCanvas extends Canvas implements PlayerListener, CommandListener {

    private ExampleStreamingMIDlet midlet = null;
    private Command start = new Command("Start", Command.OK, 0);
    private Command stop = new Command("Stop", Command.OK, 0);
    private Command back = new Command("Back", Command.OK, 0);
    private Command exit = new Command("Exit", Command.BACK, 0);
    private String url = "rtsp://rtsp.youtube.com/youtube/videos/HtVbAazUekM/video.3gp";
    private String status = "Press left softkey";
    private String status2 = "";
    private Player player = null;
    private VideoControl control = null;

    /**
     * Constructor
     *
     * @param midlet
     */
    public VideoCanvas(ExampleStreamingMIDlet midlet, String url) {
        this.midlet = midlet;
        this.url = null;
        addCommand(start);
        addCommand(stop);
        addCommand(back);
        addCommand(exit);
        setCommandListener(this);
        this.setFullScreenMode(true);
    }

    public void playerStatusChanged(Player player, int status) {
        if (status == Player.NO_ERROR) {
            status2 = "Playing";
        } else {
            status2 = "Error";
        }
        status = status2;
        update();
    }

    public void commandAction(Command c, Displayable d) {
        if (c == start) {
            player = Manager.createPlayer(url);
            player.start();
        } else if (c == stop) {
            player.stop();
        } else if (c == back) {
            player.previous();
        } else if (c == exit) {
            midlet.exit();
        }
    }
}
```

```
}

public void commandAction(Command c, Displayable arg1) {
    if(c == start) {
        start();
    }
    else if(c == stop) {
        stop();
    }
    else if(c == exit) {
        midlet.notifyDestroyed();
    }
    else if(c == back) {
        Display.getDisplay(midlet).setCurrent(midlet.list);
    }

}

/***
 * Paint
 */
protected void paint(Graphics g) {
    g.setColor(255,255,255);
    g.fillRect(0,0,getWidth(),getHeight());
    g.setColor(0,0,0);
    g.drawString(status2,0,0,Graphics.LEFT|Graphics.TOP);
    g.drawString(status,getWidth(),getHeight(),Graphics.RIGHT|Graphics.BOTTOM);
}

/***
 * Start
 *
 */
public void start() {
    try {
        player = Manager.createPlayer(url);
        player.addPlayerListener(this);
        player.realize();

        //uncomment for video problem with prefetch();
        //player.prefetch();

        // Grab the video control and set it to the current display.
        control = (VideoControl)player.getControl("VideoControl");
        if (control != null) {
            control.initDisplayMode(VideoControl.USE_DIRECT_VIDEO,this);
            control.setDisplaySize(176,144);
            int width = control.getSourceWidth();
            int height = control.getSourceHeight();
            status2 = "Before: SW=" + width + "-SH=" + height + "-DW=" +
control.getDisplayWidth() + "-DH=" + control.getDisplayHeight();
        }

        player.start();
    }
}
```

```
catch(Exception e) {
    Alert erro = new Alert("Erro",e.getMessage(),null,AlertType.ERROR);
    Display.getDisplay(midlet).setCurrent(erro);
}
}

public void stop() {
    if(player != null) {
        player.deallocate();
        player.close();
    }
}

public void playerUpdate(Player p, String s, Object o) {
    status = s;

    if(p.getState() == Player.STARTED) {
        int width = control.getDisplayWidth();
                int height = control.getDisplayHeight();
        control.setDisplayLocation((getWidth() - width)/2,(getHeight() - height)/2);
        control.setVisible(true);
        status = s + ": DW=" + width + "-DH=" + height + "-SW=" + control.getSourceWidth() +
"-SH=" + control.getSourceHeight();
    }
    repaint();
    setTitle(status);
}

}
```

dcrocha 13:43, 31 October 2007 (EET)