

# Turbine2 VelocityOnlyLayout

The VelocityECSLayout has been deprecated in Turbine 2.3.

See: [VelocityOnlyLayout Howto](#)

## Writing Directly To [ServletOutputStream](#)

On March 19, 2003, Peter Courcoux wrote to turbine-dev:

\_Hi all,

I have recently changed from using turbine 2.2-b3 to 2.2.1 and from using VelocityECSLayout to VelocityOnly\*\_Layout.

One of my actions which extends VelocitySecure\_ **'Action handles a file download by obtaining the HttpServletResponse setting the headers and then obtaining and writing directly to the ServletOutput\*' Stream.**

Before the changes outlined above this caused no problem. Having made the changes the following Exception occurs after the completion of the download and closing the ServletOutput\*\_Stream:

```
java.lang.IllegalStateException: getOutputStream() has already been called for this response
at org.apache.catalina.connector.ResponseBase.getWriter(ResponseBase.java:750)
at org.apache.catalina.connector.ResponseFacade.getWriter(ResponseFacade.java:165)
at org.apache.turbine.services.rundata.DefaultTurbineRunData.getOut(DefaultTurbineRunData.java:1013)
at org.apache.turbine.modules.layouts.VelocityOnlyLayout.doBuild(VelocityOnlyLayout.java:120)
at org.apache.turbine.modules.Layout.build(Layout.java:91)
at org.apache.turbine.modules.LayoutLoader.exec(LayoutLoader.java:123)
at org.apache.turbine.modules.pages.DefaultPage.doBuild(DefaultPage.java:169)
at org.apache.turbine.modules.Page.build(Page.java:90)
at org.apache.turbine.modules.PageLoader.exec(PageLoader.java:123)
at org.apache.turbine.Turbine.doGet(Turbine.java:563)
at org.apache.turbine.Turbine.doPost(Turbine.java:658)
```

\_\*

He later contributed a solution:\*\_

"I have solved this by creating a DirectResponse\*\_Layout class which does nothing except check that declareDirectResponse() has been called on RunData. I then call

```
data.setLayout( "DirectResponseLayout" );
```

in my Action class.

Source of DirectResponse\*\_Layout:

```

package com.whatever.modules.layouts;

// Turbine Classes
import org.apache.turbine.modules.Layout;
import org.apache.turbine.util.RunData;

/**
 * This layout allows an action to manipulate the
 * ServletOutputStream directly. It requires that
 * data.declareDirectResponse() has been called to
 * indicate that the OutputStream is being
 * handled else an Exception is thrown
 *
 * @author <a href="mailto:peter@courcoux.biz">Peter Courcoux</a>
 */
public class DirectResponseLayout extends Layout
{
    /**
     * Method called by LayoutLoader.
     *
     * @param RunData
     */
    public void doBuild( RunData data ) throws Exception
    {
        if (!data.isOutSet())
        {
            throw new Exception(
                "data.declareDirectResponse() has not been called");
        }
    }
}

```

One drawback is that it calls `data.isOutSet()` which is deprecated.

Questions:

1. Is there a better way?
2. If not, would it be worth including the `DirectResponse**Layout` class in the turbine distribution.
3. Is there a case for removing the deprecation of `RunData.isOutSet()`?
4. Is this worth documenting. At least one other user appears to be doing something similar."

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I have committed `DirectResponse**Layout` to cvs - it will come with future releases of Turbine (2.3.1 and 2.4) whenever those are released.  
 — [ScottEade](#) 2003-10-17