

# EasyBrowserRedirection

NOTE: This is outdated information that applies only to Tapestry 3 and 4. For current information see [Tapestry5RedirectException](#).

## Easy Browser Redirection

A common problem is the need to redirect the browser from a Tapestry Listener. The way this is accomplished is with the following steps.

1. Find the Tapestry service you want
2. Use the `getLink()` method with the right parameters in the right order
3. Throw a [RedirectException](#)

The following extended [RedirectException](#) makes this very easy. Thanks to Paul Ferraro for posting this gem to the mailing list.

## Example (Tapestry3)

```

import org.apache.tapestry.IDirect;
import org.apache.tapestry.IRequestCycle;
import org.apache.tapestry.RedirectException;
import org.apache.tapestry.Tapestry;
import org.apache.tapestry.engine.ILink;
import org.apache.tapestry.link.DirectLink;

public class TapestryRedirectException extends RedirectException {

    private static final long serialVersionUID = 4049918285694842678L;

    public TapestryRedirectException(String url)
    {
        super(url);
    }

    public TapestryRedirectException(ILink link)
    {
        this(link.getURL());
    }

    /**
     * Use this to redirect the browser to the specified page
     */
    public TapestryRedirectException(IRequestCycle cycle, String page)
    {
        this(cycle.getEngine().getService(Tapestry.PAGE_SERVICE).getLink(cycle,
            cycle.getPage(), new String[] { page }));
    }

    /**
     * Use this to redirect the browser to the specified page that implements the IExternalPage
     * interface
     */
    public TapestryRedirectException(IRequestCycle cycle, String page, Object
        parameters)
    {
        this(cycle.getEngine().getService(Tapestry.EXTERNAL_SERVICE).getLink(cycle,
            cycle.getPage(), getServiceParameters(page, parameters)));
    }

    /**
     * Use this to redirect the browser to the specified listener on the component
     * that implements the IDirect interface.
     */
    public TapestryRedirectException(IRequestCycle cycle, IDirect direct, Object
        parameters)
    {
        this(cycle.getEngine().getService(Tapestry.DIRECT_SERVICE).getLink(cycle,
            direct, DirectLink.constructServiceParameters(parameters)));
    }

    private static Object[] getServiceParameters(String targetPage,
        Object parameter)
    {
        Object[] pageParameters = DirectLink.constructServiceParameters(parameter);
        if (pageParameters == null)
        {
            return new Object[] { targetPage };
        }
        Object[] parameters = new Object[pageParameters.length + 1];
        parameters[0] = targetPage;
        System.arraycopy(pageParameters, 0, parameters, 1, pageParameters.length);
        return parameters;
    }
}

```

## Example (Tapestry4)

```
import java.util.HashMap;
import java.util.Map;
import org.apache.hivemind.impl.RegistryBuilder;
import org.apache.tapestry.IRequestCycle;
import org.apache.tapestry.RedirectException;
import org.apache.tapestry.engine.IEngineService;
import org.apache.tapestry.engine.ILink;
import org.apache.tapestry.services.ServiceConstants;

public class TapestryRedirectException extends RedirectException {

    public static IEngineService getPageService() {
        return (IEngineService)RegistryBuilder.constructDefaultRegistry()
            .getService("tapestry.services.Page",IEngineService.class);
    }

    public static Map getLinkParams(Strink pageName) {
        Map linkParams=new HashMap();
        linkParams.put(ServiceConstants.PAGE,pageName);
        return linkParams;
    }

    private static final long serialVersionUID = 4049918285694842678L;

    public TapestryRedirectException(String url)
    {
        super(url);
    }

    public TapestryRedirectException(ILink link)
    {
        this(link.getURL());
    }

    /**
     * Use this to redirect the browser to the specified page
     */
    public TapestryRedirectException(IRequestCycle cycle, String page) {
        this(cycle.getEngine().getInfrastructure().getLinkFactory().constructLink(
            TapestryRedirectException.getPageService(),false,
            TapestryRedirectException.getLinkParams(page),false));
    }
}
```