

# SECURITY ADVISORY

**June 2008**

Direct Web Remoting – Cross-Site Scripting on Error Page



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## **The Security Research Team**

This advisory has been discovered by FortConsult's Security Research Team/Peter Österberg.

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For more information: [www.fortconsult.net](http://www.fortconsult.net).

## ***Issue History***

This document has been updated to the present version as information has been received from various external sources.

- Oct 2007 Issue originally discovered within the DWR community,  
<https://dwr.dev.java.net/servlets/ReadMsg?listName=users&msgNo=10475>
- May 14 2008 Issue publicly discovered by Peter Österberg
- May 14 2008 Vendor was contacted
- May 15 2008 Vendor reports back that the issue is corrected as of version 2.0.2
- June 17 2008 Disclosure date

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## ***Issue Description***

DWR generated javascripts are commonly generated under a folder named  
.../dwr/interface/javascript.js.

An error message will pop up if a user navigates to an URL under this folder that doesn't exist.

Example: <http://somedomain/dwr/interface/nonexistent.js>.

The error will say something similar to: "No class by name: nonexistent"

The generation of this error message does not sanitize the *nonexistent* part. This makes it possible to post javascript in the URL. This javascript will be part of the generated error page and will, if properly encoded, execute in the users browser.

## ***Issue Impact***

The vulnerability could possibly be used to steal session cookies from a user.

## ***Affected Components***

Direct Web Rendering (DWR – Easy Ajax for JAVA) – <http://getahead.org/dwr>

Version: 2.0.1, other versions might be affected as well

## ***Exploit***

Navigate your web browser to [http://somesite/dwr/interface/nopage<script>alert\(123\)</script>](http://somesite/dwr/interface/nopage<script>alert(123)</script>)

Success

The above example will work FireFox browsers, it normally has to be URL-encoded to work properly in an Internet Explorer browser.

## ***Mitigation***

Upgrade to version 2.0.2

and / or

Use a custom made error page and don't let DWR to generate the error page as it does in its default behavior.

## ***CVE-reference***

CVE-2008-2740

## **CVSS Base Score**

FortConsult has used the online CVSS calculator found at <http://www.patchadvisor.com/PatchAdvisor/CVSSCalculator.aspx> to calculate these scores.

### **BASE SCORE: 3.5**

#### Metrics:

Access Vector: Remote

Access Complexity: Low

Authentication: Not Required

Confidentiality Impact: Partial

Integrity Impact: None

Availability Impact: None

Impact Bias: Confidentiality