

# S2-024

## Summary

Wrong `excludeParams` overrides those defined in `DefaultExcludedPatternsChecker`

<b>Who should read this</b>	All Struts 2 developers and users
<b>Impact of vulnerability</b>	If default settings are used, the attacker can compromise internal state of an application
<b>Maximum security rating</b>	Moderate
<b>Recommendation</b>	Developers should immediately upgrade to <a href="#">Struts 2.3.20.1</a> or introduce the below change in framework's settings
<b>Affected Software</b>	Struts 2.3.20
<b>Reporter</b>	Jasper Rosenberg at Cargurus
<b>CVE Identifier</b>	CVE-2015-1831

## Problem

Wrong default exclude patterns were introduced in version 2.3.20 of Struts, if default settings are used, the attacker can compromise internal application's state.

## Solution

In Struts 2.3.20.1 a better set of exclude patterns was defined.

## Backward compatibility

No backward compatibility problems are expected.

## Workaround

If you cannot migrate to the latest version it's highly recommended to re-define `defaultStack` from `struts-default.xml` to this one below (or any other which is used in your application and drop `excludeParams` parameter):

## Redefined defaultStack

```
<interceptor-stack name="myDefaultStack">
  <interceptor-ref name="exception"/>
  <interceptor-ref name="alias"/>
  <interceptor-ref name="servletConfig"/>
  <interceptor-ref name="i18n"/>
  <interceptor-ref name="prepare"/>
  <interceptor-ref name="chain"/>
  <interceptor-ref name="scopedModelDriven"/>
  <interceptor-ref name="modelDriven"/>
  <interceptor-ref name="fileUpload"/>
  <interceptor-ref name="checkbox"/>
  <interceptor-ref name="datetime"/>
  <interceptor-ref name="multiselect"/>
  <interceptor-ref name="staticParams"/>
  <interceptor-ref name="actionMappingParams"/>
  <interceptor-ref name="params"/>
  <interceptor-ref name="conversionError"/>
  <interceptor-ref name="validation">
    <param name="excludeMethods">input,back,cancel,browse</param>
  </interceptor-ref>
  <interceptor-ref name="workflow">
    <param name="excludeMethods">input,back,cancel,browse</param>
  </interceptor-ref>
  <interceptor-ref name="debugging"/>
  <interceptor-ref name="deprecation"/>
</interceptor-stack>
```

and define the following constant in struts.xml

```
<constant name="struts.additional.excludedPatterns" value="^(action|method):.*"/>
```