# **S2-033**

## Summary

Remote Code Execution can be performed when using REST Plugin with! operator when Dynamic Method Invocation is enabled.

Who should read this	All Struts 2 developers and users
Impact of vulnerability	Possible Remote Code Execution
Maximum security rating	Important
Recommendation	Disable Dynamic Method Invocation if possible. Alternatively upgrade to Struts 2.3.20.3, Struts 2.3.24.3 or Struts 2.3.28.1.
Affected Software	Struts 2.3.20 - Struts Struts 2.3.28 (except 2.3.20.3 and 2.3.24.3)
Reporter	Alvaro Munoz alvaro dot munoz at hpe dot com
CVE Identifier	CVE-2016-3087

### Problem

It is possible to pass a malicious expression which can be used to execute arbitrary code on server side when Dynamic Method Invocation is enabled when using the REST Plugin.

## Solution

Disable Dynamic Method Invocation when possible or upgrade to Apache Struts versions 2.3.20.3, 2.3.24.3 or 2.3.28.1.

# Backward compatibility

No issues expected when upgrading to Struts 2.3.20.3, 2.3.24.3 and 2.3.28.1

### Workaround

Disable Dynamic Method Invocation or implement your own version of RestActionMapper.