

# VA Software Assurance Secure Coding Tips

## API Abuse Coding Errors Can Lead To Vulnerabilities

This week's Secure Coding Tip is about how making API abuse types of coding errors[1] can introduce vulnerabilities into VA applications. Scanning source code to perform code review is an authorization requirement included in the Technical / Testing Requirements of the OCS Accreditation Requirements Guide / SOP [2] , and enforced as part of the ATO issuance process.[3]

An example of an API abuse type of vulnerability is calling a potentially dangerous function incorrectly, resulting in a vulnerability.[4] Another example is when a function is inherently dangerous and cannot be used safely (and thus should never be used).[5] API abuse coding errors such as these are errors that the HP Fortify Static Code Analyzer (SCA) can detect.

[Read more...](#)

[1] MITRE Common Weakness Enumeration (CWE) [CWE-227: API Abuse](#)

[2] "Accreditation Requirements Guide / Standard Operating Procedures", Office of Cyber Security (OCS) Assessment and Authorization intranet site.

[3] "Accreditation Requirements Expectation Memorandum" (Section 2.a.ii "Code Review"), VA Chief Information Security Officer (CISO) Stanley F. Lowe, March 19, 2014.

[4] MITRE Common Weakness Enumeration (CWE) [CWE-676: Use of Potentially Dangerous Function](#)

[5] MITRE Common Weakness Enumeration (CWE) [CWE-242: Use of Inherently Dangerous Function](#)

### Resources

- [VA Software Assurance Support Site](#)
- [Request VA-licensed code review tools, validations, and support](#)
- [Latest VA Software Assurance Program Office announcements](#)
- [Learn more about VA code review processes](#)
- [VA Working Group Registration Instructions](#)
- [VA Application Registration Instructions](#)

### Reminders

- [The next instructor-led class is on 6/28](#)
- [The next working group meeting is 7/11](#)

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