



Android

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Android Secure Coding Standard

Created by Admin, last modified by Robert Schiela on Nov 06, 2017

The Android™ rules and recommendations in this wiki are a work in progress and reflect the current thinking of the secure coding community. Because this is a development website, many pages are incomplete or contain errors. As rules and recommendations mature, they are published in report or book form as official releases. These releases are issued as dictated by the needs and interests of the secure software development community.

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Front Matter

- [Guidelines for Wiki Contributors](#)
- [Introduction](#)

Rules

Recommendations

☰ Rule 00. Component Security (CPS)	☰ Rec. 00 Component Security (CPS)
☰ Rule 01. File I/O and Logging (FIO)	☰ Rec. 01. File I/O and Logging (FIO)
☰ Rule 02. Intent (ITT)	☰ Rec. 02. Intent (ITT)
☰ Rule 03. WebView (WBV)	☰ Rec. 03. WebView (WBV)
☰ Rule 04. Network - SSL/TLS (NET)	☰ Rec. 04. Network - SSL/TLS (NET)
☰ Rule 05. Permission (PER)	☰ Rec. 05. Permission (PER)
☰ Rule 06. Cryptography (CRP)	☰ Rec. 06. Cryptography (CRP)
☰ Rule 07. Miscellaneous (MSC)	☰ Rec. 07. Miscellaneous (MSC)
☰ Rule 08. Declarations and Initialization (DCL)	☰ Rec. 08. Declarations and Initialization (DCL)
☰ Rule 09. Application Programming Interfaces (API)	☰ Rec. 09. Application Programming Interfaces (API)
☰ Rule 10. Environment (ENV)	☰ Rec. 10. Environment (ENV)
☰ Rule 11. Error Handling (ERR)	☰ Rec. 11. Error Handling (ERR)
☰ Rule 12. Expressions (EXP)	☰ Rec. 12. Expressions (EXP)
☰ Rule 13. Floating Point (FLP)	☰ Rec. 13. Floating Point (FLP)
☰ Rule 14. Integers (INT)	☰ Rec. 14. Integers (INT)
☰ Rule 15. Memory Management (MEM)	☰ Rec. 15. Memory Management (MEM)
☰ Rule 16. Preprocessor (PRE)	☰ Rec. 16. Preprocessor (PRE)
☰ Rule 17. Characters and String (STR)	☰ Rec. 17. Characters and Strings (STR)

Contact Us

Contact us if you

- have questions about the Secure Coding wiki
- have recommendations for standards in development
- want to request privileges to participate in standards development

☰ Rule 18. Concurrency (CON)	☰ Rec. 18. Concurrency (CON)
☰ Rule 19. Input Validation and Data Sanitization (IDS)	☰ Rec. 19. Input Validation and Data Sanitization (IDS)
☰ Rule 20. Java Native Interface (JNI)	☰ Rec. 20. Java Native Interface (JNI)
☰ Rule 21. Locking (LCK)	☰ Rec. 21. Locking (LCK)
☰ Rule 22. Methods (MET)	☰ Rec. 22. Methods (MET)
☰ Rule 23. Numeric Types and Operations (NUM)	☰ Rec. 23. Numeric Types and Operations (NUM)
☰ Rule 24. Object Orientation (OBJ)	☰ Rec. 24. Object Orientation (OBJ)
☰ Rule 25. Serialization (SER)	☰ Rec. 25. Serialization (SER)
☰ Rule 26. Thread APIs (THI)	☰ Rec. 26. Thread APIs (THI)
☰ Rule 27. Thread-Safety Miscellaneous (TSM)	☰ Rec. 27. Thread-Safety Miscellaneous (TSM)
☰ Rule 28. Visibility and Atomicity (VNA)	☰ Rec. 28. Visibility and Atomicity (VNA)
☰ Rule 29. Platform Security (SEC)	☰ Rec. 29. Platform Security (SEC)

Rules and Recommendations by Language

- ☰ Android Only
- ☰ C Coding Language
- ☰ C++ Coding Language
- ☰ Java Coding Language
- ☰ XML

i Rules vs. Recommendations

This coding standard consists of *rules* and *recommendations*, collectively referred to as *guidelines*. Rules are meant to provide normative requirements for code, whereas recommendations are meant to provide guidance that, when followed, should improve the safety, reliability, and security of software systems. [Learn more](#) about the differences.

i Information for Editors

- To eliminate a section from the lists above, label it *section* and *void*.
- To have a section listed as a recommendation, label it *section* and *recommendation*.
- To have a section listed as a rule, label it *section* and *rule*.
- See a complete [dictionary of labels](#) to help you label your pages correctly.
- Link to guidelines using the **Tiny Link** under Tools→Link to this Page... (This URL will not change if the name of the guideline changes.)
- Review the [guidelines](#) for writing secure coding rules/recommendations.
- To add a new rule, follow the steps on the [Guidelines for Wiki Contributors](#) page.



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No labels

1 Comment



[mncasey](#)

How can I download the whole coding standard?

Jan 15, 2016

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