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# XCALSCAN DATA SHEET

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Our highly accurate, efficient and intuitive scanning tool is easy to use. XcalScan enhances productivity by integrating itself into the software development process.

- Provides highly accurate analysis with fewer false positives
- Precision defect detection across procedures, files and control flow
- Delivers rich and precise reports on defects with accurate classifications
- Handles a high number of CERT rules compared with other static analysis tools
- Improves productivity with faster analysis time
- Locates deep-rooted defects with next generation compiler technology
- Analyses complex programming logic

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## SPECIFICATIONS FOR ON-PREMISE CONFIGURATION

### > Server environment eg. Linux

- Linux, Mac and Windows
- network connectivity

### > SDLC integration

- login - Facebook, WeChat, email
- Bug system - Jira, Zentao
- Source code control - GitHub
- IDE - vscode
- Jenkin

### > Client environment

- Browser - Chrome, FireFox, Safari
- Systems - Windows, Mac, Linux  
network connectivity

### > Programming languages supported

- C / C++ - 09
- Clang C/C++ - 11
- Java 8
- GNU ASM statements

### > Compilers supported

- GNU C/C++
- Clang
- GNU compliant compilers(eg. ICC, ACC, Open64...)
- Java

### > Supporting coding standard rules

- CERT C/C++ coding standard - 90+% level 1 and level 2 rules
- Misra 2012 C/C++ - large number of rules or directives (100+)

### > Key defects checked

- Buffer overflow
- Memory leakages
  - Missing free
  - Double free
  - Use dangling pointers
- Division by zero
- Null pointer dereference
- Uninitialized variable
- Atomicity violations
- SQL injection
- Locks
- Data races
- Cross site scripting (XSS)
- TOCTOU