

# C and Cpp Analyzer 2.1 - Release Notes

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## 2.1.0-funcrel

### Other Updates

Details
Security requirement for SSL in C++ extension: A change has been implemented in preparation for the future support of encrypted SSL connections to CAST Storage Service/PostgreSQL.
Incorrect violations for "Ensure Switch statements have at least 2 case clauses (C/C++)"
C++ analysis crashes with exit code -1073741819
Access violation during analysis with nested exec SQL include

## 2.1.0-beta1

### Rules

Rule Id	New Rule	Details
1065064	TRUE	Avoid doing assignments in sub-expressions (C++)
1065062	TRUE	Avoid testing floating point numbers for equality
1065060	TRUE	Avoid loops with floating point counter (C/C++)

## 2.1.0-alpha2

### Rules

Rule Id	New Rule	Details
1065058	TRUE	Ensure that there is at least one exception handler to catch-all otherwise unhandled exceptions in the main function(C++)
1065054	TRUE	Do not override the standard library functions (C/C++)
1065052	TRUE	Avoid using Octal constants or escape sequences (C/C++)
1065050	TRUE	Avoid using "sizeof" on expressions that contain side effects
1065048	TRUE	Where multiple handlers are provided in a single try-catch statement or function-try-block, any ellipsis (catch-all) handler shall occur last.
1065046	TRUE	Avoid using the unbounded functions of <cstring> library

### Other Updates

Details
AIP QR "Avoid 'catch-all' statement" gives violation for main() as well when it should not
New rules does not have correct technology filter

## 2.1.0-alpha1

### Rules

Rule Id	New Rule	Details
1065044	TRUE	Avoid other than main(), namespace declarations and extern "C" declarations in the global namespace (C/C++)
1065038	TRUE	Avoid using 'signal.h' (C/C++)
1065036	TRUE	Avoid using '/' and '/'* within comments (C/C++)
1065034	TRUE	Avoid throwing an exception object of pointer type (C++)
1065032	TRUE	Avoid flexible array members (C/C++)
1065030	TRUE	All if ... else if constructs shall be terminated with an else clause (C/C++)
1065028	TRUE	Ensure Switch statements have at least 2 case clauses (C/C++)
1065022	TRUE	Avoid using <stdio.h> (C/C++)
1065020	TRUE	Avoid using <ctime> (C++)
1065026	TRUE	Ensure exception objects are always caught by reference (C++)
1065024	TRUE	Avoid using the standard library time and date functions from "<time.h>" (C/C++)
1065014	TRUE	Avoid using the library functions bsearch and qsort from <stdlib.h> (C/C++)
1065012	TRUE	Avoid using 'setjmp' or 'longjmp' (C/C++)
1065010	TRUE	Avoid using <stdio> stream input output library (C++)
1065016	TRUE	Avoid using atof, atol, atoll or atoi functions from <stdlib.h> (C/C++)
1065040	TRUE	Avoid anonymous namespaces in header files (C++)
1065042	TRUE	Avoid having a non-void return type function without an explicit return of an expression (C++)