Author

CAST



**C-CPP Standards**

**Detailed Report**

Application Name –

Version –

CAST AIP -

|  |
| --- |
|  |
|  |

Monday, xx July 2012

My Application Name

Version Number

My CAST Version

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# Introduction

This assessment is an effort to determine the overall quality of the said applications against C-CPP standards rules and measure the overall health of the application. This assessment uses the CAST Application Intelligence Platform (AIP) to automatically scan the implementation of these applications to review the architecture, design, and code against current industry best practices and known design flaws that may impact performance.

CAST AIP adapts the quality rules from best-in-class industry standards (OWASP, CWE, CISQ, STIG, PCI, NIST, OMG-ASCQM, MISRA). With its unique ability to perform dataflow and system-level analysis (From Presentation layer to Database layer), CAST provides the most accurate security findings, reducing a lot of false positives.

## Application Characteristics

This assessment is focused solely on the technical implementation of the said application (user interface to database), with no investigation of the functionality.

|  |  |
| --- | --- |
| Name | Value |
| kLoC | 504 |
| Files | 6,586 |
| Classes | 593 |
| SQL Art. | 0 |
| Tables | 119 |

*Fig 1: Application Technology characteristics Table 1: Application characteristics*

# C-CPP Standards Summary

This section provides a summary of the C-CPP standards vulnerability identified in the structural quality analysis and measurement by CAST AIP.

Findings summary for CAST under C-CPP Standards.

| Rules | Total Violations | Added Violations | Removed Violations |
| --- | --- | --- | --- |
| Rule 1 | 0 | 0 | 0 |
| Rule 2 | 0 | 0 | 0 |
| Rule 3 | 0 | 0 | 0 |
| Rule 4 | 0 | 0 | 0 |
| Rule 5 | 0 | 0 | 0 |

*Table 2: OMG-ASCQM summary*

# CAST Findings for AUTOSAR-CPP-2014

List of CAST rules for AUTOSAR-CPP-2014.

| CAST Rules | Total Violations | Added Violations | Removed Violations |
| --- | --- | --- | --- |
| Rule 1 | 0 | 0 | 0 |
| Rule 2 | 0 | 0 | 0 |
| Rule 3 | 0 | 0 | 0 |
| Rule 4 | 0 | 0 | 0 |
| Rule 5 | 0 | 0 | 0 |

*Table 3: AUTOSAR-CPP-2014 rules*

# CAST Findings for MISRA-C-2012

List of CAST rules for MISRA-C-2012.

| CAST Rules | Total Violations | Added Violations | Removed Violations |
| --- | --- | --- | --- |
| Rule 1 | 0 | 0 | 0 |
| Rule 2 | 0 | 0 | 0 |
| Rule 3 | 0 | 0 | 0 |
| Rule 4 | 0 | 0 | 0 |
| Rule 5 | 0 | 0 | 0 |

*Table 4: MISRA-C-2012 rules*

# CAST Findings for MISRA-CPP-2008

List of CAST rules for MISRA-CPP-2008.

| CAST Rules | Total Violations | Added Violations | Removed Violations |
| --- | --- | --- | --- |
| Rule 1 | 0 | 0 | 0 |
| Rule 2 | 0 | 0 | 0 |
| Rule 3 | 0 | 0 | 0 |
| Rule 4 | 0 | 0 | 0 |
| Rule 5 | 0 | 0 | 0 |

*Table 5: MISRA-CPP-2008 rules*

# CAST Findings Details for AUTOSAR-CPP-2014

|  |
| --- |
| Violations |
| No violation |

# CAST Findings Details for MISRA-C-2012

|  |
| --- |
| Violations |
| No violation |

# CAST Findings Details for MISRA-CPP-2008

|  |
| --- |
| Violations |
| No violation |

# Appendix

## About CAST Software Intelligence

Software Intelligence creates understanding into software architecture, end to end transaction flows, data access patterns and more, helping teams work confidently and faster. Hundreds of companies rely on CAST Software Intelligence to improve end-user satisfaction and time-to-market, prevent business disruption and reduce cost, enabling them to move past today’s obstacles and to tackle the next wave of innovation.

[Click here](https://www.castsoftware.com/software-intelligence) for more information about CAST Software Intelligence.