Author

CAST



**ISO-5055**

**Detailed Report**

Application Name –

Version –

CAST AIP -

|  |
| --- |
|  |
|  |

Monday, xx July 2012

My Application Name

Version Number

My CAST Version

# Table of Content

Table of Content

1. Introduction

1.1. Application Characteristics

2. ISO-5055 Summary

3. CAST Findings for ISO-5055 Security

4. CAST Findings for ISO-5055 Reliability

5. CAST Findings for ISO-5055 Performance Efficiency

6. CAST Findings for ISO-5055 Maintainability

7. CAST Findings Details for ISO-5055 Security

8. CAST Findings Details for ISO-5055 Reliability

9. CAST Findings Details for ISO-5055 Performance Efficiency

10. CAST Findings Details for ISO-5055 Maintainability

11. Appendix

11.1. About CAST Software Intelligence

11.2. About CISQ ISO-5055 Automated Quality Characteristic Measures

# Introduction

This assessment is an effort to determine the overall quality of the said applications against ISO-5055 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, ISO-5055). 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*

# ISO-5055 Summary

This section provides a summary of the ISO-5055 specified vulnerability identified in the structural quality analysis and measurement by CAST AIP. Details about ISO-5055 Standard can be found [here](https://www.omg.org/spec/ASCQM/).

Findings summary for CAST under ISO-5055 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: ISO-5055 summary*

# CAST Findings for ISO-5055 Security

List of CAST violations for ISO-5055 Security.

| 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: ISO-5055 Security* *violations*

# CAST Findings for ISO-5055 Reliability

List of CAST violations for ISO-5055 Reliability.

| 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: ISO-5055 Reliability* *violations*

# CAST Findings for ISO-5055 Performance Efficiency

List of CAST violations for ISO-5055 Performance Efficiency.

| 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: ISO-5055 Performance Efficiency* *violations*

# CAST Findings for ISO-5055 Maintainability

List of CAST violations for ISO-5055 Maintainability.

| 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 6: ISO-5055 Maintainability* *violations*

# CAST Findings Details for ISO-5055 Security

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

# CAST Findings Details for ISO-5055 Reliability

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

# CAST Findings Details for ISO-5055 Performance Efficiency

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

# CAST Findings Details for ISO-5055 Maintainability

|  |
| --- |
| 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.

## About ISO-5055

ISO-5055 is a standard that is published ISO: <https://www.iso.org/standard/80623.html>.

These measures were developed from coding rules covering some of the most serious violations of good architectural and coding practices that should be avoided and can be detected through static code analysis. Each measure counts the number of violations of the architectural and coding rules related to that quality characteristic, and then can be used in creating metrics for defect density, etc.