WEBINAR
Using Software Quality Standards with Outsourced IT Vendor Engagements – a Fortune 100 Case Study

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Dr. Bill Curtis, CISQ Executive Director
CISQ is chartered to define automatable measures of software size and quality that can be measured in the source code, and promote them to become Approved Specifications of the OMG®.

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OMG-approved standards developed by CISQ

**Software Size**

- Automated Function Points — based on IFPUG counting guidelines
- Automated Enhancement Points — sizes functional & non-functional code

**Structural Quality**

- Automated Reliability Measure — 29 severe weaknesses
- Automated Security Measure — 22 of CWE Top 25 weaknesses
- Automated Performance Efficiency Measure — 15 severe weaknesses
- Automated Maintainability Measure — 20 severe weaknesses

**Derivative Measures**

- Technical Debt — estimates effort to fix CISQ weaknesses detected
There are many advantages to outsourcing IT Labor from a bigger resource pool to choose from and ability to select relevant expertise in a timely manner:

- Quick Access for Development Needs
- More Knowledgeable Resources
- Overall Lower Labor Costs
While there are many benefits to outsourcing from a cost and expertise perspective there can be some challenges:

1. Lack of Direction
2. Objectivity Challenges
3. Perceived Challenges with Software Quality
Outsourcing Control

Add software quality requirements to development efforts and set acceptance criteria for software deliverables with Software Quality Standards from CISQ.

- Bring Software Quality Objectivity into your Vendor Development Efforts
- Leverage Your Existing Vendor SLAs for Software Quality Measures
- Utilize & Consistently Automated Objective Measures from CISQ
Outsourcing Accountability

Establish an iterative process of continuous measurement and improvements

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<th>SECURITY</th>
<th>RELIABILITY</th>
<th>PERFORMANCE EFFICIENCY</th>
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Scale: 1.0 - 4.0 (low-to-high quality score) a measure of critical violations / software size measured using the CAST Application Intelligence Platform (AIP), a software intelligence technology.
Security is inherently linked to good software quality development practices while focusing developments efforts to measure improvements

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Outsourcing Prioritization

“if you can't measure it, you can’t improve it”

Prioritize your outsourced IT Labor development efforts based on your organizational objectives

- Develop New Functionality
- Improve Quality & Lower Risk
- Development Efforts
Utilize the CISQ Software Quality Standards to drive your development efforts to meet your objectives and goals

- Improved Governance
- Better Control
- Measurable Improvements
Additional Information

For more info on Vendor Accountability & Performance
• Contact: Marc Cohen ‘mscohen101@gmail.com’

For more info on CISQ Software Quality Standards
• Consortium for IT Software Quality – ‘info@it-cisq.org’