

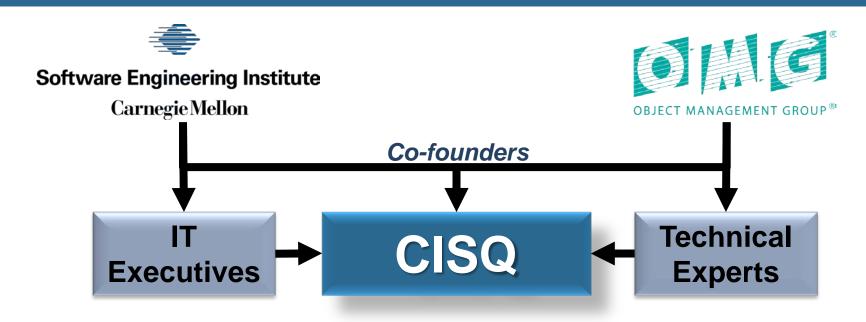
WEBINAR

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

Marc Cohen, Vendor Management practitioner at Fortune 100 institution Dr. Bill Curtis, CISQ Executive Director



What is CISQ?



OMG Special Interest Group 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®

Sponsors

















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



Outsourcing Advantages

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:









Outsourcing Challenges

While there are many benefits to outsourcing from a cost and expertise perspective there can be some challenges:



Lack of Direction



Objectivity Challenges





Outsourcing Control

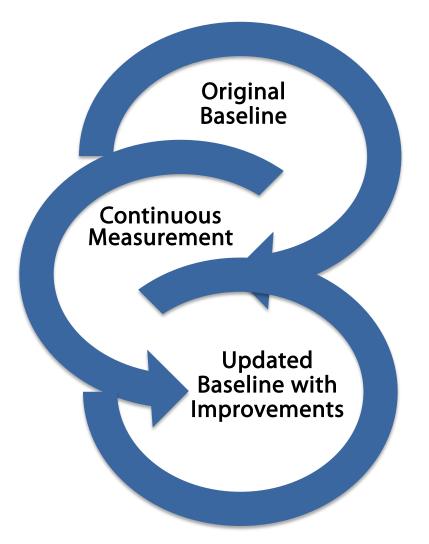
Add software quality requirements to development efforts and set acceptance criteria for software deliverables with Software Quality Standards from CISQ





Outsourcing Accountability

Establish an iterative process of continuous measurement and improvements



	SECURITY	RELIABILITY	PERFORMANCE EFFICIENCY	MAINTAINABILITY
Original Baseline	2.77	3.05	2.85	3.12
1. Dev effort updated baseline	2.79	3.06	2.90	3.15
2. Dev effort updated baseline	2.80	3.10	2.91	3.20
3. Dev effort updated baseline	2.86	3.18	3.02	3.27
4. Dev Effort updated baseline	2.95	3.30	3.19	3.45

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



Outsourcing Focus

Security is inherently linked to good software quality development practices while focusing developments efforts to measure improvements

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Focus Area



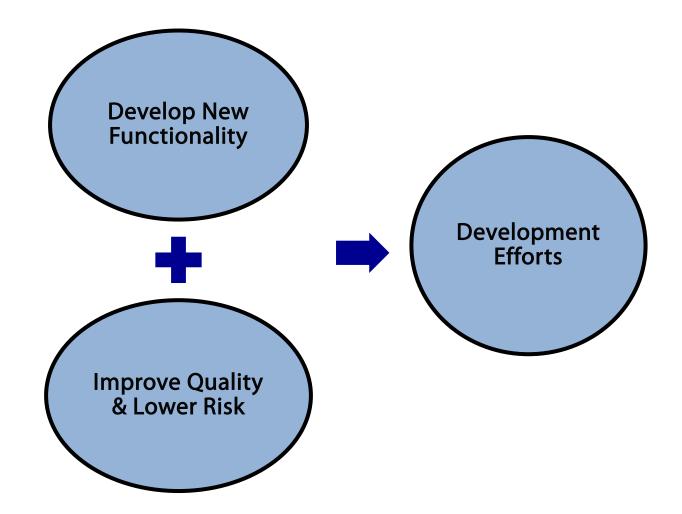
Outsourcing Prioritization

"if you can't measure it, you can't improve it"

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









Outsourcing Benefits

Utilize the CISQ Software Quality Standards to drive your development efforts to meet your objectives and goals





Questions?





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'