New CISQ/OMG Automated Source Code Technical Debt Standard

Dr. Bill Curtis, Executive Director CISQ January 16, 2018 Consortium for IT Software Quality





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 Standards of the OMG®

CISQ Sponsors



CISQ What Is Technical Debt?

"Shipping first time code is like going into debt. A little debt speeds development so long as it is paid back promptly with a rewrite...Every minute spent on not-quite-right code counts as interest on that debt."

- Ward Cunningham, OOPSLA, 1992

Although the Agile Alliance describes defects as "Quality Debt", industry most often treats defects and sub-optimized design jointly as 'Technical Debt' because they incur a corrective maintenance cost.

Strategic tradeoff

The cost of shipping suboptimal code versus the business benefit derived

Industry Use The correction costs and interest related to flaws

that must be removed

CISQ Technical Debt Metaphor

Technical Debt — future cost of fixing severe architectural and coding flaws in released software, part of cost of ownership



Curtis, et al. (2012). IEEE Software.

CISQ What IT Management Wants









Content of CISQ Measures

Consortium for IT Software Quality





CISQ Technical Debt Measure



CISQ Technical Debt Calculation





CISQ Measurement Roadmap





Join CISQ ! www.it-cisq.org

Consortium for IT Software Quality		FOUND FOUND Software Engineering Institute Carnegie Mellon	ED BY: Object	MANAGEMENT GROUP®	FAQs Contact Us Search <u>Member Login</u>
Standards Programs	Use Cases	Members Area	Events	About CISQ	

Become

CISQ Members Area

CISQ Events

a CISQ:

Member

Sponsor

Consortium for IT Software Quality

The Consortium for IT Software Quality[™] (CISQ[™]) is an IT industry leadership group comprised of IT executives from the Global 2000, system integrators, outsourced service providers, and software technology vendors committed to introducing computable metrics standards for measuring software quality & size. CISQ is a neutral, open forum in which customers and suppliers of IT application software can develop an industry-wide agenda of actions for improving IT application quality to reduce cost and risk.

Register for the Jan 16 Technical Debt Webinar with Dr. Bill Curtis

Access the Cyber Resilience Summit Knowledge Repository here

