The Consortium for IT Software Quality™ (CISQ™) is an IT leadership group that develops international standards for automating the measurement of software size and structural quality from system source code. The standards written by CISQ enable IT and business leaders to measure the risk IT applications pose to the business and estimate the cost of ownership. CISQ was co-founded by the Object Management Group® (OMG®) and Software Engineering Institute (SEI) at Carnegie Mellon University. CISQ develops software measurement specifications that are submitted to the OMG for approval as standards. The initiatives that CISQ undertakes are supported by sponsor organizations.

Tap into this body of work by becoming a member - it’s free! - at www.it-cisq.org.

Attend or sponsor an upcoming Cyber Resilience Summit by visiting www.it-cisq.org/cyber-resilience-summit.

Dr. Bill Curtis led development of the Capability Maturity Model (CMM) while at the Software Engineering Institute at Carnegie Mellon University. He has published 5 books, over 150 articles, and in 2007 was elected a Fellow of the IEEE for his career contributions to software process improvement and measurement. Dr. Curtis is active in ISO JTC1 SC7 WG6 for Software and System Product Measures.

“Executive management needs a way to evaluate risk and cost, and they do not want proprietary measures. They want standards that help them govern and perform due diligence based on sound industry experience.”

Dr. Richard Soley is Chairman and CEO of the Object Management Group (OMG), a not-for-profit technology standards consortium that manages CISQ operations. Dr. Soley is on CISQ’s Governing Board and also serves as Executive Director of the Industrial Internet Consortium and Cloud Standards Customer Council programs.

“CISQ will enable us to benchmark the effectiveness of internal development, evaluate the quality of applications acquired from external sources, and predict the quality and cost of IT services to the business. For application quality measurement to be economically practical it must be automated, and that requires a level of standardization that does not exist today.”

CISQ SPONSORS
CODE QUALITY STANDARDS

IT organizations can use standards to measure the quality, security and risk posture of software and software-intensive systems. The Automated Quality Characteristic Measures delivered by CISQ for Security, Reliability, Performance Efficiency and Maintainability, now OMG® standards, are composed of eighty-six software engineering rules to ensure reliable, secure, efficient and easy-to-maintain software. The measures are used in development reporting, vendor contracts, and service level agreements and are to be implemented during static analysis to automate the identification and quantification of critical vulnerabilities. When used in combination with a sizing measure, such as Automated Function Points (standardized by CISQ) or lines of code, a density metric is produced for each measure, composed of violations / software size. CISQ seeks to supplement the ISO/IEC 25000 series of standards by specifying measures of internal quality at the source code level.

STANDARDS READY FOR USE

For software sizing:

- Automated Function Points
- Automated Enhancement Points

For structural quality measurement:

- Automated Source Code Security Measure
- Automated Source Code Reliability Measure
- Automated Source Code Performance Efficiency Measure
- Automated Source Code Maintainability Measure
- Technical Debt

HOW DOES CISQ DEPLOY ITS STANDARDS?

CISQ hosts outreach events, influences policy, and briefs analysts and the media on software quality. CISQ hosts the Cyber Resilience Summit in Washington, DC to influence the cybersecurity and resilience of mission-critical applications. CISQ has submitted position papers and requests for information regarding federal policy from several U.S. government agencies such as NIST, DoD, Federal Reserve Board and the SEC. CISQ is developing a certification program to enable IT organizations to certify the structural quality of IT software they develop or acquire.

BECOME A SPONSOR TO DEMONSTRATE COMMITMENT TO SOFTWARE QUALITY

Sponsoring CISQ puts IT leaders in the position to directly influence the implementation of industry standards for the structural quality of software and showcase their leadership in delivering dependable, trustworthy software.

Benefits include company recognition on the CISQ website and in presentations, a seat on CISQ’s Board, complimentary event passes, demo/exhibit table at CISQ events, media interviews, speaking opportunities, sponsored webcasts, and more.

Thanks to sponsors, CISQ is an open membership organization.

Sponsorship opportunities are available. To learn more, contact bd-team@omg.org or call 781-444-0404.

Join CISQ today at www.it-cisq.org. For more information, email info@it-cisq.org or call 781-444-0404.