DHS Software Assurance Resources

These resources are output of the Software Assurance working groups, part of other DHS-sponsored work, or other closely related materials.

Name	Publication Date	Abstract
Software Assurance (SwA) in Acquisition: Mitigating Risks to the Enterprise	10/21/08	A prepublication version (dated October 22, 2008) of *Software Assurance (SwA) in Acquisition: Mitigating Risks to the Enterprise*[1] and a feedback form are available on the Software Assurance Community Resources and Information Clearinghouse website.
Software Assurance Best Practices for Air Force Weapon and Information Technology Systems - Are we bleeding?	4/21/08	The research described in this thesis by Major Ryan A. Maxon seeks to identify common issues that present challenges to the development of secure software and best practices that the Air Force could adopt as it proactively begins to heal the software assurance problem.
IT Security Essential Body of Knowledge	3/28/08	The IT Security Essential Body of Knowledge (EBK) further clarifies key IT security terms and concepts for well-defined competencies, identifies notional security roles, defines four primary functional perspectives, and establishes an IT Security Role, Competency, and Functional Matrix. We seek continued input from the community to ensure that it accurately reflects baseline skill requirements of the nation's IT security workforce.
Software Assurance CBK/ Principles Organization	10/30/07	The Department of Homeland Security (DHS) Software Assurance Program is seeking review and comment on Software Assurance: A Curriculum Guide to the Common Body of Knowledge to Produce, Acquire, and Sustain Secure Software and the associated SwA CBK-Principles Matrix. The CBK-Principles-SANS SSI Matrix and Principles Organization: Towards an Organization for Software System Security Principles and

		Guidelines (version .26a) are also available for reference and review.
Software Project Management for Software Assurance: DACS State of the Art Report	9/28/07	The purpose of this report is to collect and present information on how the need for software assurance affects software project management. The impact of software assurance on the tasks and concerns of a project manager are addressed, first in terms of discipline, and then in terms of life cycle. A second goal of this SOAR is to provide tools and resources for quantifying the effects of software assurance on software development, both in terms of planning (cost estimation and budgeting) and in terms of overall cost-effectiveness and return on investment.
SOAR on Software Security Assurance	8/3/07	The Software Assurance Forum has provided a collaborative venue for stakeholders to share and advance techniques and technologies relevant to software security. The state-of-the-art report (SOAR) published by the Information Assurance Technology Analysis Center (IATAC) at http://iac.dtic.mil/iatac/download/security.pdf represents an output of collaborative efforts of organizations and individuals in the SwA Forum and Working Groups. The SOAR provides an overview of the current state of the environment in which software must operate and surveys current and emerging activities and organizations involved in promoting various aspects of software security assurance. The report also describes the variety of techniques and technologies in use in government, industry, and academia for specifying, acquiring, producing, assessing, and deploying software that can, with a justifiable degree of confidence, be said to be secure. The report also presents observations about noteworthy

		trends in software security assurance as a discipline.
Seven Objectives of Software Assurance Sound Practices	1/9/06	There are seven objectives that are key to understanding the nature of software assurance “best” practices for the stakeholder community of practice. The sound practices are consensus-based “best” practices.
Software Assurance Program Working Groups	1/1/06	The DHS National Cyber Security Division (NCSD) has established working groups to support each of the Software Assurance Program's focus areas. Information about the working groups' activities is published on the Software Assurance Community Resources and Information Clearinghouse (CRIC), along with resources and information for a broad range of stakeholders.