

Structured Assurance Case

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Structured Assurance Case is “a documented body of [evidence](#) that provides a convincing and valid [argument](#) that a specified set of critical claims regarding a system ’s properties are adequately justified for a given application in a given environment.¹⁾” Much like a legal case presented in a courtroom, an assurance case is a comprehensive presentation of evidence and arguments that support claims about properties or behaviors of a product or system, such as, security, safety reliability, etc. Hence, the structured assurance case provides a structured, composable, and traceable model for demonstrating and verifying the plausibility and strength of claims made about a property of the product or system in question.

Source: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4548534/#b13-v115.n03.a05>

¹⁾

Scott Ankrum T, Krombolz Alfred H., Structured Assurance Cases: Three Common Standards, Slides presentation at the Association for Software Quality (ASQ), Section 509 meeting, the MITRE Corporation; 25 January 2006; available at <http://www.asq509.org/ht/a/GetDocumentAction/i/2132>.

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Last update: 2021/07/14 15:44

