

2.2.1.7 Assurance

[return to Fundamental Views](#)

The existing strategy for software and [system assurance](#) is already defined by the [Systems and software Quality Requirements and Evaluation \(SQuaRE\)](#). It establishes a common framework for analysis and exchange of information related to system assurance and trustworthiness, and defines the following kinds of assurance that need to be addressed: [Information Assurance \(IA\)](#), [Safety Assurance \(SfA\)](#), [Software Assurance \(SwA\)](#), [Mission Assurance \(MA\)](#) and [System Assurance \(SysA\)](#).

Assurance does not yield binary true / false answers. Assurance is a measure of [risk](#) which is a probability or threat of damage, injury, liability, loss, or any other negative occurrence that is caused by external or internal vulnerabilities, and that may be avoided through preemptive action.¹⁾ Assurance is best handled using [Structured Assurance Case Metamodels \(SACMs\)](#) for each of the assurances detailed above. A [DIDO community of interest \(Col\)](#) best interest is to provide assurance measurements of their software, especially those Cols that are offering “coinage” products to provide formal SACM results.

See

- [ISO/IEC 7816 Integrated Circuit Card Family of Specifications](#)
- [OMG: Structured Assurance Case Metamodel \(SACM\)](#)

¹⁾

Business Dictionary, Accessed 1 June 2020, <http://www.businessdictionary.com/definition/risk.html>

From:
<https://www.omgwiki.org/dido/> - **DIDO Wiki**

Permanent link:
https://www.omgwiki.org/dido/doku.php?id=dido:public:ra:1.2_views:2_tech_views:1_core:4_assure

Last update: **2021/08/17 15:27**

