

View

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Discussion

A View presents selected information about a subject to address identified stakeholder concerns in accordance with one or more [Viewpoints](#).

The subject of a View may be a:

- [System](#)
- System element
- [Domain](#)
- Organization
- Process
- [Model](#)
- Architecture
- Federation
- Other subject of interest

A View selects and presents only the information needed to address its specified concerns. It does not attempt to reproduce every characteristic of its subject.

A View may specify or contain:

- Selected Model elements
- Relationships among those elements
- Information-selection conditions
- Tables, diagrams, matrices, text, or other renderings
- Analytical results
- Applicable assumptions and [Constraints](#)
- Relationships to other Views
- Evidence that the governing Viewpoint is satisfied

A View conforms to a Viewpoint when it addresses the concerns and satisfies the conventions, selection criteria, presentation rules, and other requirements established by that Viewpoint.

In [Systems Modeling Language Version 2 \(SysML v2\)](#), a View is a rendered presentation of selected Model information. A View Definition specifies how the View is constructed, including the conditions that select Model content and the rendering used to present that content. A View may satisfy one or more Viewpoints.

Definition

representation of a subject that presents selected information to address specified stakeholder

concerns in accordance with one or more Viewpoints

Source

Aligned with ISO/IEC/IEEE 42010 architecture-description concepts and the [OMG Systems Modeling Language Version 2.0 Language Specification](#) treatment of Views, View Definitions, Viewpoints, Model-content selection, and rendering.

Note

A View is distinct from a Viewpoint. A Viewpoint establishes the concerns and conventions governing the View. The View is the representation produced in accordance with those concerns and conventions.

A View is also distinct from a Model. A Model represents selected aspects of a subject for a defined purpose. A View selects and presents information from one or more Models to address particular stakeholder concerns.

A diagram may be one rendering within a View. A View is not limited to a single diagram and may include text, tables, matrices, calculations, analytical results, and other representations.

Example

A security-assurance View presents trust boundaries, information flows, identities, security controls, threats, residual risks, and supporting Evidence for a particular System. It selects and renders this information according to the requirements established by the security-assurance Viewpoint.

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