SAF User Documentation : D2_VPTI Framework Viewpoint Implementation Viewpoint

Domain	Aspect	Maturity
SAF Development	Taxonomy & Structure	⚠️ proposed

Example
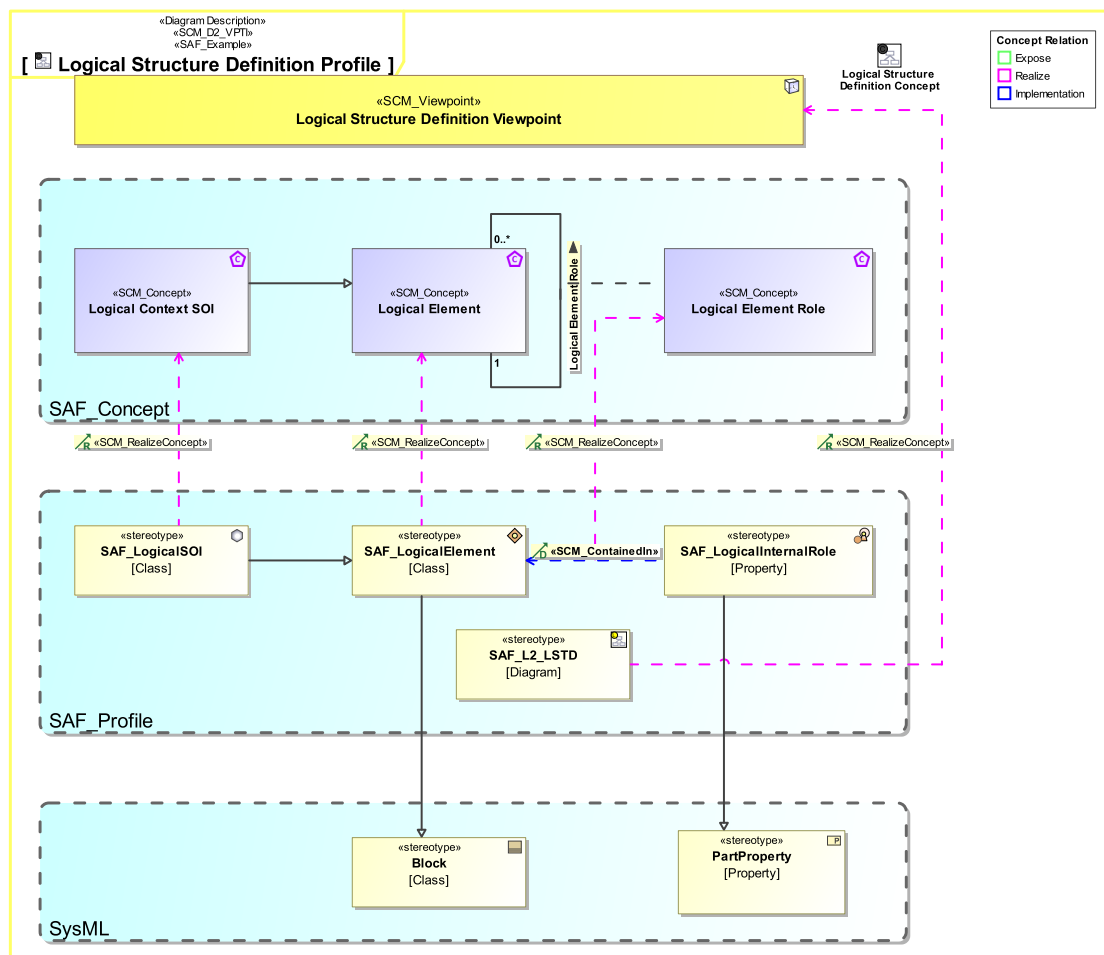
Purpose

The Framework Viewpoint Implementation Viewpoint defines the implementation of SE concepts exposed by SAF Viewpoints. It serves as the basis for profile implementations of SAF. It shall specify

- for each exposed concept an implementation

- an implementation for each presentation of the viewpoint
- full traceability from implementation

The viewpoint is intended to be used for development or extension of the SAF.

Applicability

The Viewpoint supports the "Specification of an architecture description framework" as defined in ISO42010:2022

Presentation

A Profile Diagram featuring SCM_Concept elements for the exposed concepts of a viewpoint, stereotypes from the SAF Profile implementing the concepts, and SCM_RealizeConcept relationships tracing the implementation to the implemented concept. If concepts are implemented directly by UML Metaclasses or by SysML profile elements, they shall be shown on the diagram and related to the concepts. There are additional relationships SCM_Attribute, SCM_TypedBy and SCM_ContainedIn, that can be used to specify details of the implementation, e.g. if a concept is to be implemented by the fact that one element is part of an other element. Please see the SAF Development Guide how to do this.

Stakeholder

- SAF Developer
- SAF System model user

Concern

- How is a viewpoint implemented (which stereotypes /model elements are used)?
- What is the implementation of the frameworks concepts?

Profile Model Reference

The following Stereotypes / Model Elements are used in the Viewpoint:

Input from other Viewpoints

Required Viewpoints

none

Recommended Viewpoints

none