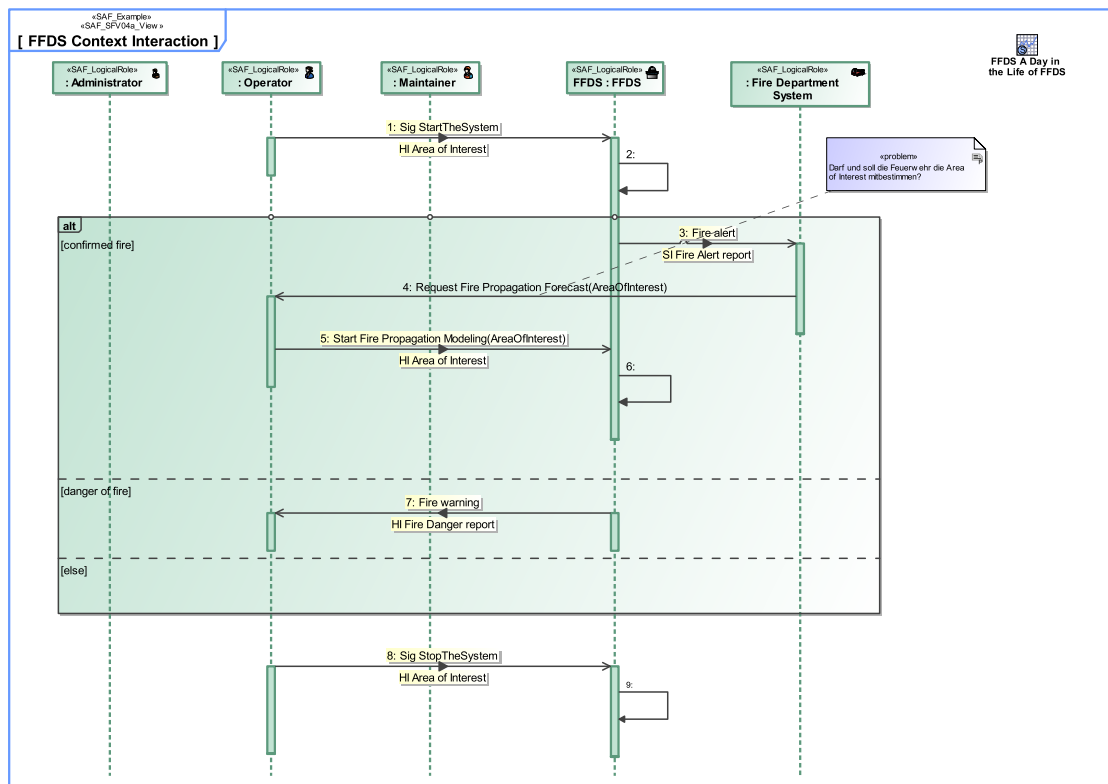




SAF User Documentation : System Context Interaction Viewpoint

Domain	Aspect	Maturity
Functional	Interaction & Collaboration	 released

Example



Purpose

The System Context Interaction Viewpoint describes the System external behavior based on the exchange between Logical SOI and Logical Context Elements Usage within a specific System Context. It depicts the sequence of interactions between the Logical SOI, the Context Elements and the Exchanged Data Items needed to accomplish a given System Function.

Applicability

The System Context Interaction Viewpoint supports "Prepare for Requirement Definition" activity included in "System Requirements Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§ 4.3] and contributes to the identification of expected interactions with systems external to the SOI.

Stakeholder

- [Acquirer](#)
- [Customer](#)
- [Hardware Developer](#)
- [IV&V Engineer](#)
- [Operator](#)
- [Regulation Authority](#)
- [Safety Expert](#)
- [Security Expert](#)
- [Software Developer](#)
- [System Architect](#)
- [User](#)

Concern

- How does the system or a system element interact with the test environment?
- How is the system being used or utilized and interacting with other external systems to satisfy user needs?
- What additional information the system or a system element needs to generate to enable testing?
- What are the items exchanged at the boundary of the system with external entities?
- What is the necessary response time for an interface or a service?
- What is the sequence of interactions among the system and context elements
- Which users does the system support? What the system has to accomplish for these users?

Presentation

The System Context Interaction Viewpoint is modeled as a sequence diagram. It describes the flow of control between SOI and Context Element(s). This diagram represents the sending and receiving of messages between the interacting entities called lifelines, where time is represented along the vertical axis. The elements on the lifelines are part properties of a System Context.

Profile Model Reference

- [Interaction \[UML_Standard_Profile\]](#)
- [Lifeline \[UML_Standard_Profile\]](#)

- Message [UML_Standard_Profile]
- Property [UML_Standard_Profile]
- [SAF_SFV04a_View](#)

Input from other Viewpoints

Required Viewpoints

- [System Context Definition Viewpoint](#)

Recommended Viewpoints

- [Operational Context Definition Viewpoint](#)