

- the Context Functions the Context Elements are expected to perform
- the exchange between SOI System Functions and Context Functions of Context Elements
- the functional flows crossing the boundary between SOI and Context Elements

Applicability

The System Process Viewpoint supports the "System Requirements Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§4.3] and contributes to the System Function, and the System Interface definition.

Stakeholder

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

Concern

- How does a system function interact with its environment?
- How is the system interacting with the identified external entities?
- What are necessary inputs for operating the system expected to be provided by other external entities?
- What are the functional interfaces of the system?
- What are the scenarios a system function is utilized in?
- What is the functional scope of the system?
- What services are expected from external entities?
- Which functions are out of scope of the system?
- Which functions will the system provide?

Presentation

An activity diagram featuring the ordered execution of System Process Actions. The activity diagram swim lanes are typed with Context Element usage and SOI usage from the same System Context. Note: In order to

improve the clarity of presentation it may be appropriate to use several activity diagrams for one System Process.

A tabular format listing all identified System Functions, the System Processes in which they appear, and the Context Exchange with the Context Functions.

Profile Model Reference

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

- Allocate [SysML Profile]
- Allocate [SysML Profile]
- ControlFlow [UML_Standard_Profile]
- InputPin [UML_Standard_Profile]
- ObjectFlow [UML_Standard_Profile]
- OutputPin [UML_Standard_Profile]
- Parameter [UML_Standard_Profile]
- [SAF_ContextAction](#)
- [SAF_ContextFunction](#)
- [SAF_FunctionAction](#)
- [SAF_LogicalContextRole](#)
- [SAF_LogicalContextRole](#)
- [SAF_SFV03a_View](#)
- [SAF_SystemFunction](#)
- [SAF_SystemProcess](#)

Input from other Viewpoints

Required Viewpoints

none

Recommended Viewpoints

- [Operational Context Definition Viewpoint](#)
- [Operational Domain Item Kind Viewpoint](#)
- [System Context Definition Viewpoint](#)
- [System Domain Item Kind Viewpoint](#)