


SAF User Documentation : F3_SFRE System Functional Refinement Viewpoint

Domain	Aspect	Maturity
Functional	Process & Behavior	 under construction

Example



Purpose

The System Functional Refinement Viewpoint analyses decomposition of System Functions into System Partial Functions in order achieve understanding and agreement about the System functions sufficient to derive system requirements.

Applicability

The System Functional Refinement Viewpoint supports the "Define System Requirements" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2015 [§4.3]. The System Functional Refinement Viewpoint contributes to the System Function definition.

Presentation

Activity Diagram featuring System Partial Functions, functional exchange between partial functions. There are explicitly no Swimlanes and no allocations to structure.

Stakeholder

- [System Architect](#)

Concern

- [How are the system functions decomposed into smaller, and more manageable sub-functions?](#)
- [What is the breakdown of functions into sub-functions?](#)

Profile Model Reference

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

- ControlFlow [UML_Standard_Profile]
- ObjectFlow [UML_Standard_Profile]
- Parameter [UML_Standard_Profile]
- SAF_FunctionAction contained in SAF_SystemFunction
- [SAF_F3_SFRE](#)
- [SAF_FunctionAction](#)
- [SAF_SystemFunction](#)

Input from other Viewpoints

Required Viewpoints

- [System Process Viewpoint](#)

Recommended Viewpoints

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