


## 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

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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

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

## Stakeholder

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- [System Architect](#)

## Concern

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- [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

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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

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### 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](#)