**System Architecture Framework**

# System Functional Breakdown Viewpoint

| Domain | Aspect | Maturity |
|---|---|---|
| Functional | Structure | ⚠️ under construction |

## Example
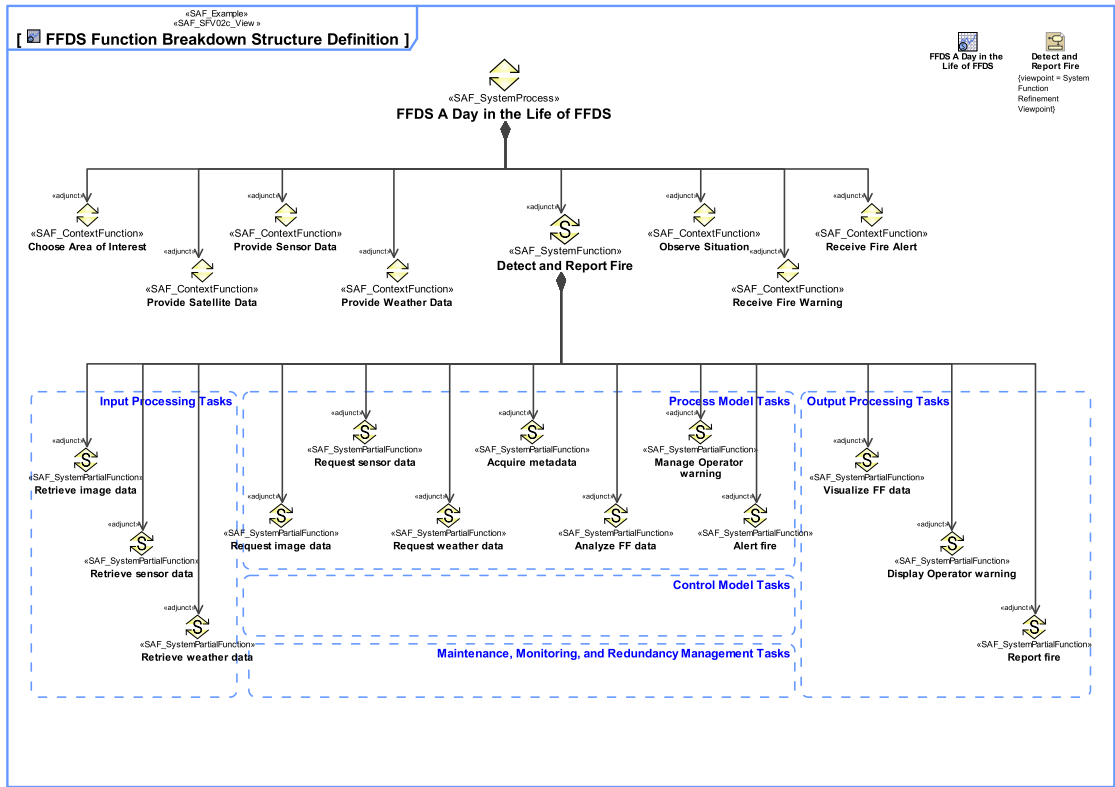


## Purpose

The System Functional Breakdown Viewpoint defines the functional hierarchy of the SOI beginning with System Processes, over identified System Functions further refined down to partial Functions. The reuse of System Functions and partial Functions over Function Trees of the SOI is facilitated.

## Applicability

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

## Stakeholder

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

## Concern

- How are the system functions decomposed into sub-functions decomposed?
- What is the breakdown of functions into sub-functions?
- Which functions will the system provide?

## Presentation

The content is in one or more more block definition diagrams (BDD) featuring activities representing system functions and aggregation repesenting the functional breakdown.

Tool specific analysis diagram displaying the relationships between system processes, system functions and partial functions

## Profile Model Reference

- Activity [UML_Standard_Profile]
- Association [UML_Standard_Profile]
- Association [UML_Standard_Profile]
- Property [UML_Standard_Profile]
- [SAF_FunctionAction](#)
- [SAF_PartialFunction](#)
- [SAF_SFV02c_View](#)
- [SAF_SystemFunction](#)
- [SAF_SystemProcess](#)

## Input from other Viewpoints

# Required Viewpoints

*none*

# Recommended Viewpoints

- System Process Viewpoint