

















































































































































SAF User Documentation : C2_GRID Grid Definition Viewpoint

Domain	Aspect	Maturity
Common	Taxonomy & Structure	 under construction

Example

	CONTEXT & EXCHANGE	TAXONOMY & STRUCTURE	PROCESS & BEHAVIOR	INTERACTION & COLLABORATION	INTERFACE	REQUIREMENT	SAFETY & SECURITY	TRACEABILITY & MAPPING
COMMON DOMAIN SCV		Common Structure   						
OPERATIONAL DOMAIN SOV	Operational Context & Exchange   	Operational Structure    	Operational Process  	Operational Interaction 	Operational Interface Definition 	Stakeholder Requirement   		Traceability & Mapping   
FUNCTIONAL DOMAIN SFV	System Context & Exchange   	System Structure    	System Process   	System Interaction 	System Interface Definition 	System Requirement   	System Hazard   	Traceability & Mapping   
LOGICAL DOMAIN SLV	Logical Context & Exchange	Logical Structure 	Logical Behavior 	Logical Interaction & Internal Exchange 	Logical Interface Definition			Mapping 
PHYSICAL DOMAIN SPV	Physical Context & Exchange  	Physical Structure 	Physical Behavior 	Physical Interaction & Internal Exchange 	Physical Interface Definition 			Mapping  

#	Domain	Aspect	Name	△ Viewpoint ID	Diagrams
1	Common	Taxonomy & Structure	 Argumentation Assurance Viewpoint	C2_ARAS	 FFDS Safety Assurance Definition
2	Common	Taxonomy & Structure	 Common Standards Definition Viewpoint	C2_CSTD	 Image_Standards  Network Standards  Standards Overview
3	Common	Taxonomy & Structure	 Grid Definition Viewpoint	C2_GRID	 SAF_FFDS_View Grid Structuring Formalism  FFDS View Overview
4	Common	Taxonomy & Structure	 Common Terms Definition Viewpoint	C2_TRMD	 PNG V3 Terms  FFDS Glossary Table
5	Functional	Context & Exchange	 System Context Definition Viewpoint	F1_SCXD	 FFDS Context Definition Table
6	Functional	Context & Exchange	 System Context Exchange Viewpoint	F1_SCXE	 FFDS Context Definition  FFDS Context Exchange
7	Functional	Context & Exchange	 System Use Case Viewpoint	F1_SUCS	 FFDS Use Case A Day in Life of the System  FFDS Use Case Table
8	Functional	Taxonomy & Structure	 System Capability Definition Viewpoint	F2_SCYD	 FFDS Capability Definition
9	Functional	Taxonomy & Structure	 System Domain Item Kind Viewpoint	F2_SDIK	 FFDS System Domain Item Definition
10	Functional	Taxonomy & Structure	 System Functional Breakdown Structure Viewpoint	F2_SFBS	 FFDS Function Breakdown Structure Definition  FFDS Function Breakdown Structure Maintenance
11	Functional	Process & Behavior	 System Functional Refinement Viewpoint	F3_SFRE	 Detect and Report Fire
12	Functional	Process & Behavior	 System Process Viewpoint	F3_SPRO	 Fire Detection and Monitoring
13	Functional	Process & Behavior	 System State Viewpoint	F3_SSTA	 FFDS System Modes and States
14	Functional	Interaction & Collaboration	 System Context Interaction Viewpoint	F4_SCXI	 FFDS Context Interaction
15	Functional	Interface	 System Interface Definition Viewpoint	F5_SIFD	 FFDS System Interface Definition
16	Functional	Requirement	 System Requirement Definition Viewpoint	F6_SRQD	 System Requirement Table
17	Functional	Traceability & Mapping	 System Capability Mapping Viewpoint	F8_SCYM	 FFDS Capability Mapping Table
18	Functional	Traceability & Mapping	 System Requirement Traceability Viewpoint	F8_SRQT	 System Requirement Traceability Matrix
19	Logical	Taxonomy & Structure	 Logical Structure Definition Viewpoint	L2_LSTD	 FFDS Logical Architecture Definition  FFDS Logical Architecture Definition Full Tree
20	Logical	Interaction & Collaboration	 Logical Internal Exchange Viewpoint	L4_LIEX	 FFDS Logical Internal Exchange  FFDS Logical Internal Exchange Full
21	Logical	Interaction & Collaboration	 Logical Internal Interaction Viewpoint	L4_LITI	 FFDS Internal Interaction
22	Logical	Traceability & Mapping	 Logical Functional Mapping Viewpoint	L8_LFUM	 Mapping of Functions To Logical Elements
23	Operational	Context & Exchange	 Operational Context Definition Viewpoint	O1_OCXD	 FDN Context Definition  SAR Context Definition
24	Operational	Context & Exchange	 Operational Context Exchange Viewpoint	O1_OCXE	 FDN Context Exchange
25	Operational	Context & Exchange	 Operational Story Viewpoint	O1_OSTY	 Exemplary Operational Story
26	Operational	Taxonomy & Structure	 Operational Capability Definition Viewpoint	O2_OCYD	 SAR and FDN Capability Definition
27	Operational	Taxonomy & Structure	 Operational Domain Item Kind Viewpoint	O2_ODIK	 Operational Domain Item Definition  Operational Domain Item Table
28	Operational	Taxonomy & Structure	 Operational Performer Viewpoint	O2_OPRF	 Operational Performer Table  Operational Performer Definition
29	Operational	Taxonomy & Structure	 Stakeholder Identification Viewpoint	O2_STID	 Stakeholder Identification Definition
30	Operational	Process & Behavior	 Operational Process Viewpoint	O3_OPRO	 Fire Detection and Notification Process  Search and Rescue Process
31	Operational	Interaction & Collaboration	 Operational Context Interaction Viewpoint	O4_OCXI	 Fire Detection and Notification
32	Operational	Requirement	 Stakeholder Requirement Definition Viewpoint	O6_SKRD	 Stakeholder Requirement Table
33	Operational	Traceability & Mapping	 Operational Capability Mapping Viewpoint	O8_OCYM	 SAR and FDN Capability Mapping Table
34	Operational	Traceability & Mapping	 Operational Process Mapping Viewpoint	O8_OPRM	 SAR and FDN Operational Process Mapping Table
35	Physical	Context & Exchange	 Physical Context Definition Viewpoint	P1_PCXD	 FFDS_POC System Physical Context Definition  FFDS_POC System Context
36	Physical	Context & Exchange	 Physical Context Exchange Viewpoint	P1_PCXE	 FFDS_POC System Context with peek inside  POC FFDS Interfaces
37	Physical	Taxonomy & Structure	 Physical Structure Definition Viewpoint	P2_PSTD	 POC CCU  POC Dev Sensor Node  POC Comms Node  POC FFDS System 1  Proof Of Concept FFDS System Internal Network Exchange
38	Physical	Interaction & Collaboration	 Physical Internal Exchange Viewpoint	P4_PIEX	 POC Comms Node Environmental and Mounting  Proof Of Concept FFDS System Internal Exchange  Proof Of Concept FFDS System 1 ExchangeTable  POC Comms Node Internal Exchange  POC Comms Node Network Aspects
39	Physical	Interface	 Physical Interface Definition Viewpoint	P5_PIFD	 Arduino Interfaces Types  Boundary Interface Types  Internal Interface Types
40	Physical	Traceability & Mapping	 Physical Functional Mapping Viewpoint	P8_PFUM	 Function To Physical
41	Physical	Traceability & Mapping	 Physical Logical Item Mapping Viewpoint	P8_PLIM	
42	Physical	Traceability & Mapping	 Physical Logical Mapping Viewpoint	P8_PLOM	 Physical Logical Mapping

Purpose

The Grid Definition Viewpoint serves as overview about the of the Views present in a System Model.

Applicability

The Grid Definition Viewpoint supports the "System Viewpoints, Views and Models" input/output of various Technical Processes in INCOSE SYSTEMS ENGINEERING HANDBOOK 2023.

Presentation

A content diagram featuring a matrix view for the SAF Viewpoint conceptual model: Rows represent Domains, and columns represent Aspects, and the cells manage the Views.

A table featuring the saf viewpoints, the views (diagrams, tables, ..) of the system model conforming to those viewpoints, domain and aspect information

Stakeholder

- [SAF System model user](#)

Concern

- [Which viewpoints are used in the system model](#)
- [Which views of the frameworks viewpoints are present in the system model?](#)

Profile Model Reference

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

- Attribute "diagrams" of SAF_Viewpoint referencing SAF_Diagram
- [SAF_C2_GRID](#)
- [SAF_C2_GRID_Table](#)
- [SAF_Diagram](#)
- [SAF_Viewpoint](#)

Input from other Viewpoints

Required Viewpoints

none

Recommended Viewpoints

none