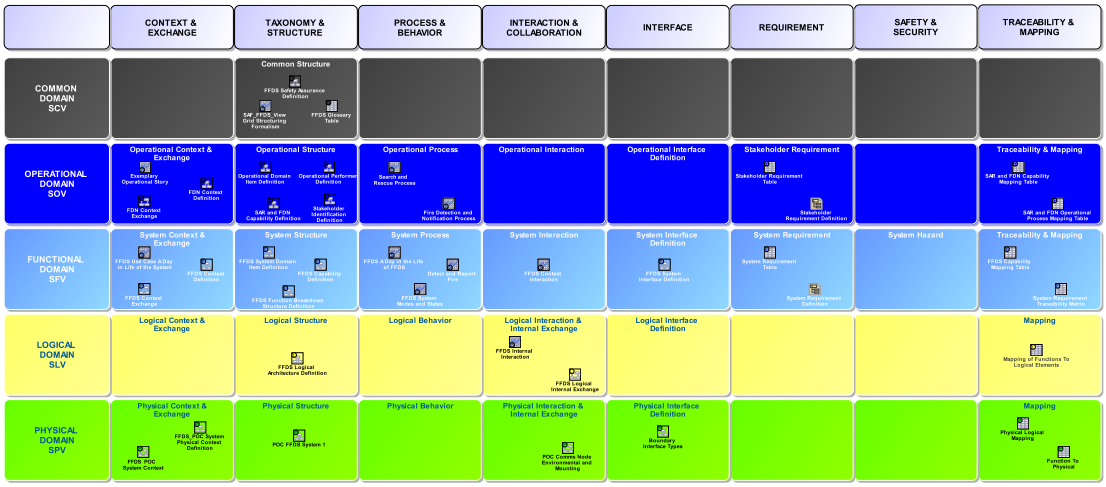
SAF User Documentation : C2_GRID Grid Definition Viewpoint

Domain	Aspect	Maturity
Common	Taxonomy & Structure	under construction

Example



#	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	FFDS_Standards FFDS_Standards
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	FFDS Glossary Table PNG V3 Terms
5	Functional	Context & Exchange	System Context Definition Viewpoint	F1_SCXD	FFDS Context Definition FFDS Context Definition Table
6	Functional	Context & Exchange	System Context Exchange Viewpoint	F1_SCXE	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
11	Functional	Process & Behavior	System Functional Refinement Viewpoint	F3_SFRE	Detect and Report Fire
12	Functional	Process & Behavior	System Process Viewpoint	F3_SPRO	FFDS A Day in the Life of FFDS
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 Full Tree FFDS Logical Architecture Definition
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 Table Operational Domain Item Definition
28	Operational	Taxonomy & Structure	Operational Performer Viewpoint	O2_OPRF	Operational Performer Definition Operational Performer Table
29	Operational	Taxonomy & Structure	Stakeholder Identification Viewpoint	O2_STID	Stakeholder Identification Definition
30	Operational	Process & Behavior	Operational Process Viewpoint	O3_OPRO	Search and Rescue Process Fire Detection and Notification Process
31	Operational	Interaction & Collaboration	Operational Context Interaction Viewpoint	O4_OCXI	
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
36	Physical	Context & Exchange	Physical Context Exchange Viewpoint	P1_PCXE	FFDS POC System Context FFDS POC System Context with peek inside POC FFDS Interfaces
37	Physical	Taxonomy & Structure	Physical Structure Definition Viewpoint	P2_PSTD	POC Comms Node POC FFDS System 1 POC Dev Sensor Node POC CCU
38	Physical	Interaction & Collaboration	Physical Internal Exchange Viewpoint	P4_PIEX	Proof Of Concept FFDS System Internal Exchange Proof Of Concept FFDS System Internal Network Exchang POC Comms Node Network Aspects POC Comms Node Environmental and Mounting POC Comms Node Internal Exchange Proof Of Concept FFDS System 1 ExchangeTable
39	Physical	Interface	Physical Interface Definition Viewpoint	P5_PIFD	Arduino Interfaces Types Internal Interface Types Boundary 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