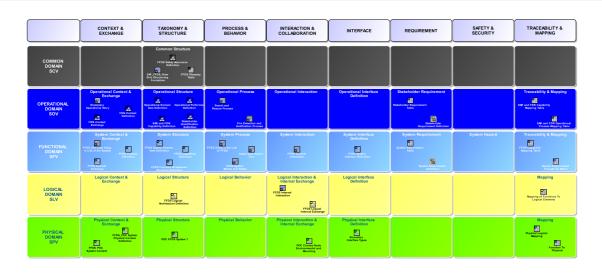


SAF User Documentation : C2_GRID Grid Definition Viewpoint

Domain	Aspect	Maturity
Common	Taxonomy & Structure	under construction

Example



#	Domain	Aspect	Name	△ Viewpoint ID	
1	Common	Taxonomy & Structure	Argumentation Assurance Viewpoint	C2_ARAS	FFDS Safety Assurance Definition FFDS_Standards
2	Common	Taxonomy & Structure	Common Standards Definition Viewpoint	C2_CSTD	FFDS_Standards
3	Common	Taxonomy & Structure	Grid Definition Viewpoint	C2_GRID	SAF_FFDS_View Grid Structuring Formalism
	_				FFDS View Overview PNG V3 Terms
4	Common	Taxonomy & Structure	Common Terms Definition Viewpoint	C2_TRMD	FFDS Glossary Table
5	SAF Developme	e Context & Exchange	Stakeholder Viewpoint	D1_STKD	SAF_interface_O Definition
6	SAF Developme	ei Taxonomy & Structure	© Concept Viewpoint	D2_COTD	SAF_functional domain wallpaper SAF_safesy_concept Definition SAF_safesy_concept Definition SAF_framework Definition SAF_security_concept Definition SAF_argumentation_C Definition SAF_domain_kind_O Definition SAF_context_O Definition SAF_context_O Definition SAF_context_O Definition SAF_interface_P Definition SAF_interface_D Definition SAF_interface_D Definition SAF_interface_D Definition SAF_cross-domain FD-OD mapping wallpaper SAF_state_F Definition SAF_context_O Definition SAF_operal_concept Definition SAF_operal_concept Definition SAF_operal_concept Definition SAF_operal_concept Definition SAF_operal_concept Definition SAF_operal_concept Definition SAF_process_C Definition SAF_process_C Definition SAF_structural_D Definition SAF_structural_D Definition SAF_structural_P Definition SAF_structural_F Definition SAF_context_F Definition SAF_context_F Definition SAF_structural_F Definition SAF_context_Concept Definition SAF_context_Concept Definition SAF_context_Concept Definition SAF_structural_F Definition SAF_interface_F Definition SAF_interface_F Definition SAF_interface_F Definition SAF_interface_F Definition
7	SAF Developme	e:Taxonomy & Structure	Stereotype Overview Viewpoint	D2_STYD	SAF_context_P Definition SAF Stereotype Table SAF Stereotype Table (example)
8		e Taxonomy & Structure	Viewpoint Definition Viewpoint	D2_VPTD	
9		e Taxonomy & Structure e Taxonomy & Structure	ivewpoint Implementation Viewpoint ivexpoint Overview Viewpoint	D2_VPTI D2_VPTO	
11	SAF Developme		Concern Viewpoint	D6_CCND	
	SAF Developme	e Requirement e Traceability & Mapping	Rationale Viewpoint	D6_RATD D8_STYD	
13			mplementation Traceability Viewpoint		FFDS Context Definition Table
4	Functional	Context & Exchange	System Context Definition Viewpoint	F1_SCXD	FFDS Context Definition
5	Functional	Context & Exchange	System Context Exchange Viewpoint	F1_SCXE	FFDS Context Exchange
6	Functional	Context & Exchange	System Use Case Viewpoint	F1_SUCS	FFDS Use Case Table FFDS Use Case A Day in Life of the System
7	Functional	Taxonomy & Structure	System Capability Definition Viewpoint	F2_SCYD	FFDS Capability Definition
8	Functional	Taxonomy & Structure	System Domain Item Kind Viewpoint	F2_SDIK	FFDS System Domain Item Definition
9	Functional	Taxonomy & Structure	System Functional Breakdown Structure Viewpoint		FFDS Function Breakdown Structure Definition
0.0	Functional	Process & Behavior	System Functional Refinement Viewpoint	F3_SFRE	Detect and Report Fire
1	Functional	Process & Behavior	System Process Viewpoint	F3_SPRO	FFDS A Day in the Life of FFDS
2	Functional	Process & Behavior	System State Viewpoint	F3_SSTA	FFDS System Modes and States
3	Functional	Interaction & Collaboration	System Context Interaction Viewpoint	F4_SCXI	FFDS Context Interaction
4	Functional	Interface	System Interface Definition Viewpoint	F5_SIFD	FFDS System Interface Definition
5 6	Functional	Requirement	System Requirement Definition Viewpoint	F6_SRQD	System Requirement Table
b 7	Functional Functional	Traceability & Mapping Traceability & Mapping	System Capability Mapping Viewpoint System Requirement Traceability Viewpoint	F8_SCYM F8_SRQT	FFDS Capability Mapping Table System Requirement Traceability Matrix
В	Logical	Taxonomy & Structure	Dogical Structure Definition Viewpoint	L2_LSTD	FFDS Logical Architecture Definition FFDS Logical Architecture Definition Full Tree
	Logical	Interaction & Collaboration	10 Logical Internal Exchange Viewpoint	L4_LIEX	FFDS Logical Internal Exchange FFDS Logical Internal Exchange Full
9	Logical	Interaction & Collaboration	🔯 Logical Internal Interaction Viewpoint	L4_LITI	FFDS Internal Interaction
		Traceability & Mapping	📵 Logical Functional Mapping Viewpoint	L8_LFUM	Mapping of Functions To Logical Elements FDN Context Definition
0	Logical		(A)	O1_OCXD	
0	Logical Operational	Context & Exchange	(ii) Operational Context Definition Viewpoint		SAR Context Definition
0	_	Context & Exchange	Operational Context Exchange Viewpoint	O1_OCXE	FDN Context Exchange
) 11 2 3	Operational	-			FDN Context Exchange Exemplary Operational Story
0 1 2 3 4	Operational Operational	Context & Exchange	Operational Context Exchange Viewpoint	O1_OCXE	FDN Context Exchange Exemplary Operational Story SAR and FDN Capability Definition
i0 i1 i2 i3 i4	Operational Operational Operational	Context & Exchange	© Operational Context Exchange Viewpoint Operational Story Viewpoint	O1_OCXE O1_OSTY	EDN Context Exchange Exemplary Operational Story SAR and FDN Capability Definition Operational Domain Item Definition Operational Domain Item Table
i0 i1 i2 i3 i4 i5	Operational Operational Operational Operational	Context & Exchange Context & Exchange Taxonomy & Structure	Operational Context Exchange Viewpoint Operational Story Viewpoint Operational Capability Definition Viewpoint	O1_OCXE O1_OSTY O2_OCYD	FDN Context Exchange Exemplary Operational Story SAR and FDN Capability Definition Operational Domain Item Definition Operational Domain Item Table Operational Performer Table
31 32 33 34 35 36	Operational Operational Operational Operational Operational	Context & Exchange Context & Exchange Taxonomy & Structure Taxonomy & Structure	Operational Context Exchange Viewpoint Operational Story Viewpoint Operational Capability Definition Viewpoint Operational Domain Item Kind Viewpoint	O1_OCXE O1_OSTY O2_OCYD O2_ODIK	EDN Context Exchange Exemplary Operational Story SAR and FDN Capability Definition Operational Domain Item Definition Operational Domain Item Table
33 34 35 36 37	Operational Operational Operational Operational Operational Operational Operational	Context & Exchange Context & Exchange Taxonomy & Structure Taxonomy & Structure Taxonomy & Structure Taxonomy & Structure	Operational Context Exchange Viewpoint Operational Story Viewpoint Operational Capability Definition Viewpoint Operational Domain Item Kind Viewpoint Operational Performer Viewpoint Stakeholder Identification Viewpoint	01_OCXE 01_OSTY 02_OCYD 02_ODIK 02_OPRF 02_STID	EDN Context Exchange Exemplary Operational Story SAR and FDN Capability Definition Operational Domain Item Definition Operational Domain Item Table Operational Performer Table Operational Performer Definition Estakeholder Identification Definition Fire Detection and Notification Process
i0 i1 i2 i3 i4 i5 i6 i7 i8	Operational Operational Operational Operational Operational Operational Operational Operational	Context & Exchange Context & Exchange Taxonomy & Structure Process & Behavior	Operational Context Exchange Viewpoint Operational Story Viewpoint Operational Capability Definition Viewpoint Operational Domain Item Kind Viewpoint Operational Performer Viewpoint Stakeholder Identification Viewpoint Operational Process Viewpoint Operational Process Viewpoint	01_0CXE 01_0STY 02_0CYD 02_0DIK 02_0PRF 02_STID 03_0PRO	FDN Context Exchange Exemplary Operational Story SAR and FDN Capability Definition Operational Domain Item Definition Operational Domain Item Table Operational Performer Table Operational Performer Definition Stakeholder Identification Definition Fire Detection and Notification Process Search and Rescue Process
29 80 31 32 33 34 35 36 37 40	Operational	Context & Exchange Context & Exchange Taxonomy & Structure Interaction & Collaboration	Operational Context Exchange Viewpoint Operational Story Viewpoint Operational Capability Definition Viewpoint Operational Domain Item Kind Viewpoint Operational Performer Viewpoint Stakeholder Identification Viewpoint Operational Process Viewpoint Operational Context Interaction Viewpoint	01_0CXE 01_0STY 02_0CYD 02_0DIK 02_0PRF 02_STID 03_0PRO 04_0CXI	FDN Context Exchange Exemplary Operational Story SAR and FDN Capability Definition Operational Domain Item Definition Operational Domain Item Table Operational Performer Table Operational Performer Definition Stakeholder Identification Definition Fire Detection and Notification Process Search and Rescue Process Fire Detection and Notification
0 1 2 3 4 5 6 7 8	Operational Operational Operational Operational Operational Operational Operational Operational	Context & Exchange Context & Exchange Taxonomy & Structure Process & Behavior	Operational Context Exchange Viewpoint Operational Story Viewpoint Operational Capability Definition Viewpoint Operational Domain Item Kind Viewpoint Operational Performer Viewpoint Stakeholder Identification Viewpoint Operational Process Viewpoint Operational Process Viewpoint	01_0CXE 01_0STY 02_0CYD 02_0DIK 02_0PRF 02_STID 03_0PRO	FDN Context Exchange Exemplary Operational Story SAR and FDN Capability Definition Operational Domain Item Definition Operational Domain Item Table Operational Performer Table Operational Performer Definition Example Stakeholder Identification Definition Fire Detection and Notification Process Search and Rescue Process

70	Operational	пассаршку се марриту	Declarional Flocess Mapping Memponic	OO_OF NIVI	3AN and FDN Operational Flocess Mapping Table
44	Physical	Context & Exchange	Physical Context Definition Viewpoint	P1_PCXD	FFDS_POC System Physical Context Definition
45	Physical	Context & Exchange	Physical Context Exchange Viewpoint	P1_PCXE	FFDS POC System Context with peek inside FFDS POC System Context POC FFDS Interfaces
46	Physical	Taxonomy & Structure	Physical Structure Definition Viewpoint	P2_PSTD	☑ POC Comms Node ☑ POC Dev Sensor Node ☑ POC CCU ☑ POC FFDS System 1
47	Physical	Interaction & Collaboration	Physical Internal Exchange Viewpoint	P4_PIEX	
48	Physical	Interface	Physical Interface Definition Viewpoint	P5_PIFD	Arduino Interfaces Types Boundary Interface Types Internal Interface Types
49	Physical	Traceability & Mapping	Physical Functional Mapping Viewpoint	P8_PFUM	Function To Physical
50	Physical	Traceability & Mapping	Physical Logical Item Mapping Viewpoint	P8_PLIM	
51	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