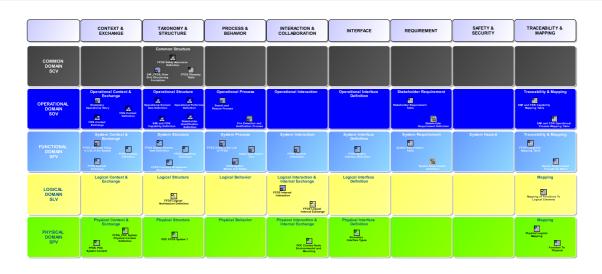


# SAF User Documentation : C2\_GRID Grid Definition Viewpoint

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	Common Terms Definition Viewpoint	C2_TRMD	FFDS Glossary Table PNG V3 Terms
4	Common	Taxonomy & Structure	Grid Definition Viewpoint	C2_GRID	SAF_FFDS_View Grid Structuring Formalism FFDS View Overview
5	Logical	Traceability & Mapping	Dugical Functional Mapping Viewpoint	L8_LFUM	Mapping of Functions To Logical Elements
6	Logical	Interaction & Collaboration	Dogical Internal Exchange Viewpoint	L4_LIEX	FFDS Logical Internal Exchange Full
7	Logical	Interaction & Collaboration	Dogical Internal Interaction Viewpoint	L4_LITI	FFDS Logical Internal Exchange FFDS Internal Interaction
		Taxonomy & Structure	Logical Internal Interaction Viewpoint     Logical Structure Definition Viewpoint	L2_LSTD	FFDS Internal Interaction
	Logical	*	_		FFDS Logical Architecture Definition Full Tree
	Operational Operational	Taxonomy & Structure Traceability & Mapping	Operational Capability Definition Viewpoint     Operational Capability Mapping Viewpoint	O2_OCYD O8_OCYM	SAR and FDN Capability Definition  SAR and FDN Capability Mapping Table
11	Operational	Context & Exchange	Operational Context Definition Viewpoint	O1_OCXD	SAR Context Definition FDN Context Definition
12	Operational	Context & Exchange	Operational Context Exchange Viewpoint	O1_OCXE	FDN Context Exchange
	Operational	Interaction & Collaboration	(i) Operational Context Interaction Viewpoint	O4_OCXI	
14	Operational	Taxonomy & Structure	Operational Domain Item Kind Viewpoint	O2_ODIK	Operational Domain Item Table Operational Domain Item Definition
15	Operational	Taxonomy & Structure	Operational Performer Viewpoint	O2_OPRF	Operational Performer Table Operational Performer Definition
16	Operational	Traceability & Mapping	Operational Process Mapping Viewpoint	O8_OPRM	SAR and FDN Operational Process Mapping Table
17	Operational	Process & Behavior	(ii) Operational Process Viewpoint	O3_OPRO	Search and Rescue Process Fire Detection and Notification Process
18	Operational	Context & Exchange	Operational Story Viewpoint	O1_OSTY	Exemplary Operational Story
19	Physical	Context & Exchange	Physical Context Definition Viewpoint	P1_PCXD	FFDS_POC System Physical Context Definition
20	Physical	Context & Exchange	Physical Context Exchange Viewpoint	P1_PCXE	FFDS POC System Context with peek inside FFDS POC System Context
21	Physical	Traceability & Mapping	Physical Functional Mapping Viewpoint	P8_PFUM	POC FFDS Interfaces Function To Physical
			_		Boundary Interface Types
22	Physical	Interface	Physical Interface Definition Viewpoint	P5_PIFD	Arduino Interfaces Types Internal Interface Types
					Proof Of Concept FFDS System 1 ExchangeTable POC Comms Node Environmental and Mounting
22	Dhusiaal	Interaction 9: Callaboration	Dhysical Internal Eughanga Vigumaint	D4 DIEV	POC Comms Node Network Aspects
23	Physical	Interaction & Collaboration	Physical Internal Exchange Viewpoint	P4_PIEX	Proof Of Concept FFDS System Internal Network Exchange
					POC Comms Node Internal Exchange Proof Of Concept FFDS System Internal Exchange
24	Physical	Traceability & Mapping	Physical Logical Item Mapping Viewpoint	P8_PLIM	
25	Physical	Traceability & Mapping	Physical Logical Mapping Viewpoint	P8_PLOM	Physical Logical Mapping
					POC CCU POC FFDS System 1
26	Physical	Taxonomy & Structure	Physical Structure Definition Viewpoint	P2_PSTD	POC Comms Node
27	Omerational	Taxonomy & Structure	Falsah aldar Idantification Visconsist	O3 CTID	POC Dev Sensor Node Stakeholder Identification Definition
	Operational Operational	Requirement		O2_STID O6_SKRD	Stakeholder Requirement Table
	Functional	Taxonomy & Structure	System Capability Definition Viewpoint	F2_SCYD	FFDS Capability Definition
	Functional	Traceability & Mapping	System Capability Mapping Viewpoint	F8_SCYM	FFDS Capability Mapping Table
	Functional	Context & Exchange	System Context Definition Viewpoint	F1_SCXD	FFDS Context Definition Table  FFDS Context Definition
32	Functional	Context & Exchange	System Context Exchange Viewpoint	F1_SCXE	FFDS Context Definition
	Functional	Interaction & Collaboration	System Context Interaction Viewpoint	F4_SCXI	FFDS Context Interaction
	Functional	Taxonomy & Structure	System Domain Item Kind Viewpoint	F2_SDIK	FFDS System Domain Item Definition
	Functional	Taxonomy & Structure	System Functional Breakdown Structure Viewpoint		FFDS Function Breakdown Structure Definition
	Functional	Process & Behavior	System Functional Refinement Viewpoint	F3_SFRE	Detect and Report Fire
37	Functional	Interface	System Interface Definition Viewpoint	F5_SIFD	FFDS System Interface Definition
38	Functional	Process & Behavior	System Process Viewpoint	F3_SPRO	FFDS A Day in the Life of FFDS
39	Functional	Requirement	System Requirement Definition Viewpoint	F6_SRQD	System Requirement Table
40	Functional	Traceability & Mapping	System Requirement Traceability Viewpoint	F8_SRQT	System Requirement Traceability Matrix
41	Functional	Process & Behavior	System State Viewpoint	F3_SSTA	FFDS System Modes and States
42	Functional	Context & Exchange	System Use Case Viewpoint	F1_SUCS	FFDS Use Case A Day in Life of the System FFDS Use Case Table

# **Purpose**

The Grid Definition Viewpoint serves as graphic representation 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 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