


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<br>FFDS Safety Assurance Definition<br>SAF FFDS View Grid Rendering Framework<br>FFDS Geometry Tools   |  |   |   |  |  |   |
| OPERATIONAL DOMAIN SOV | Operational Context & Exchange<br>Operational Overlaid Story<br>FFDS Context Definition<br>FFDS Context Exchange      | Operational Structure<br>Operational Structure Item Definition<br>Operational Pathway Definition<br>SAF and FFDS EDR Capability Definition<br>Mission Identification Exchange | Operational Process<br>Mission and Sensor Process<br>Fire Detection and Identification Process               | Operational Interaction<br>FFDS Context Interaction   | Operational Interface Definition<br>FFDS Context Interface Definition             | Stakeholder Requirement<br>Stakeholder Requirement Table<br>System Requirement Definition<br>System Requirement Definition |  | Traceability & Mapping<br>SAF and FFDS Capability Mapping Table<br>SAF and FFDS Operational Process Mapping Table<br>SAF and FFDS Operational Process Mapping Table |
| FUNCTIONAL DOMAIN SFV  | System Context & Exchange<br>FFDS User Data and SA/CS Data System<br>FFDS Context Definition<br>FFDS Context Exchange | System Structure<br>FFDS System Structure Item Definition<br>FFDS Capability Definition<br>FFDS Functional Structure Definition<br>FFDS Functional Structure Definition       | System Process<br>Fire Detection and Identification<br>Operational Process Table<br>FFDS Context Interaction | System Interaction<br>FFDS Context Interaction  | System Interface Definition<br>FFDS Context Interface Definition                  | System Requirement<br>System Requirement Table<br>System Requirement Definition<br>System Requirement Definition           | System Hazard<br>FFDS Context Hazard Table | Traceability & Mapping<br>FFDS Context Hazard Table<br>System Requirement Mapping Table   |
| LOGICAL DOMAIN SLV     | Logical Context & Exchange  | Logical Structure<br>FFDS Logical Architecture Definition   | Logical Behavior<br>FFDS Logical Interaction   | Logical Interaction & Internal Exchange<br>FFDS Logical Interaction<br>FFDS Logical Internal Exchange | Logical Interface Definition  |  |  | Mapping<br>Mapping of FFDS to Logical Context   |
| PHYSICAL DOMAIN SPV    | Physical Context & Exchange<br>FFDS Physical System Context<br>FFDS Physical System Context                           | Physical Structure<br>FFDS Physical System 1<br>FFDS Physical System 1  | Physical Behavior<br>FFDS Physical System 1  | Physical Interaction & Internal Exchange<br>FFDS Physical System 1<br>FFDS Physical System 1          | Physical Interface Definition<br>FFDS Physical System 1<br>FFDS Physical System 1 |  |  | Mapping<br>Physical System Mapping<br>Physical System Mapping   |
| #                      | Domain  | Aspect  | Name   |   | △ Viewpoint ID  | Diagrams   |  |   |

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

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- [SAF System model user](#)

## Concern

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

## Profile Model Reference

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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

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### Required Viewpoints

*none*

### Recommended Viewpoints

*none*