

SV-4 Systems Functionality Description

Description

The SV-4 addresses human and system functionality.

The primary purposes of SV-4 are to:

- Develop a clear description of the necessary data flows that are input (consumed) by and output (produced) by each resource.
- Ensure that the functional connectivity is complete (i.e., that a resource's required inputs are all satisfied).
- Ensure that the functional decomposition reaches an appropriate level of detail.

The Systems Functionality Description provides detailed information regarding the:

- Allocation of functions to resources.
- Flow of resources between functions.

The SV-4 is the Systems Viewpoint model counterpart to the OV-5b Activity Model of the Operational Viewpoint.

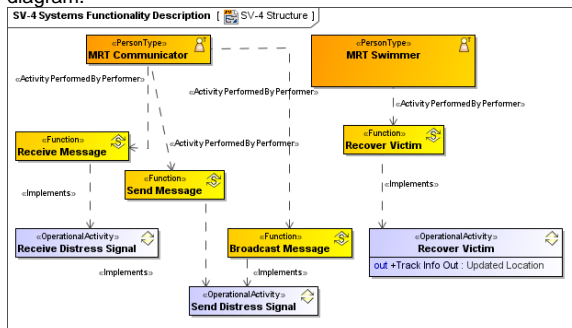
The intended usage of the SV-4 includes:

- Description of task workflow.
- Identification of functional system requirements.
- Functional decomposition of systems.
- Relate human and system functions.

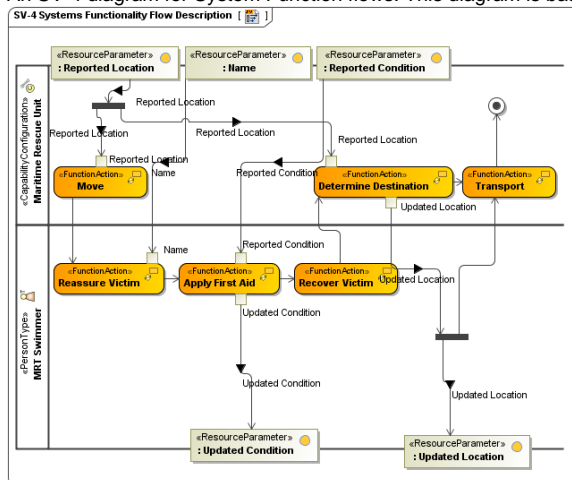
Implementation

SV-4 can be represented using:

- A SV-4 diagram for System Function hierarchies. This diagram is based on the UML Class diagram.



- An SV-4 diagram for System Function flows. This diagram is based on the UML Activity diagram.



- A UML Class diagram.
- A UML Activity diagram.
- A SysML Block diagram.
- A SysML Activity diagram.

Related procedures

- [Creating SV-4 Systems Functionality Description diagram](#)
- [Creating SV-4 Systems Functionality Flow Description diagram](#)
- [Creating Resource Interaction in SV-4 Systems Functionality Description diagram](#)
- [Applying military symbols](#)

The SV-4 is the behavioral counterpart to the [SV-1 Systems Interface Description](#) (in the same way that [OV-5b Operational Activity Model](#) is the behavioral counterpart to [OV-2 Operational Resource Flow Description](#)).

Related elements

- Function
- System
- Software
- Capability Configuration
- Organization Type
- Person Type
- Activity Performed By Performer
- Function Action
- Function Edge
- Resource Parameter
- Resource Interaction
- Exchange Element
- Energy
- Geo Political Extent Type