SV-1 Systems Interface Internal Description
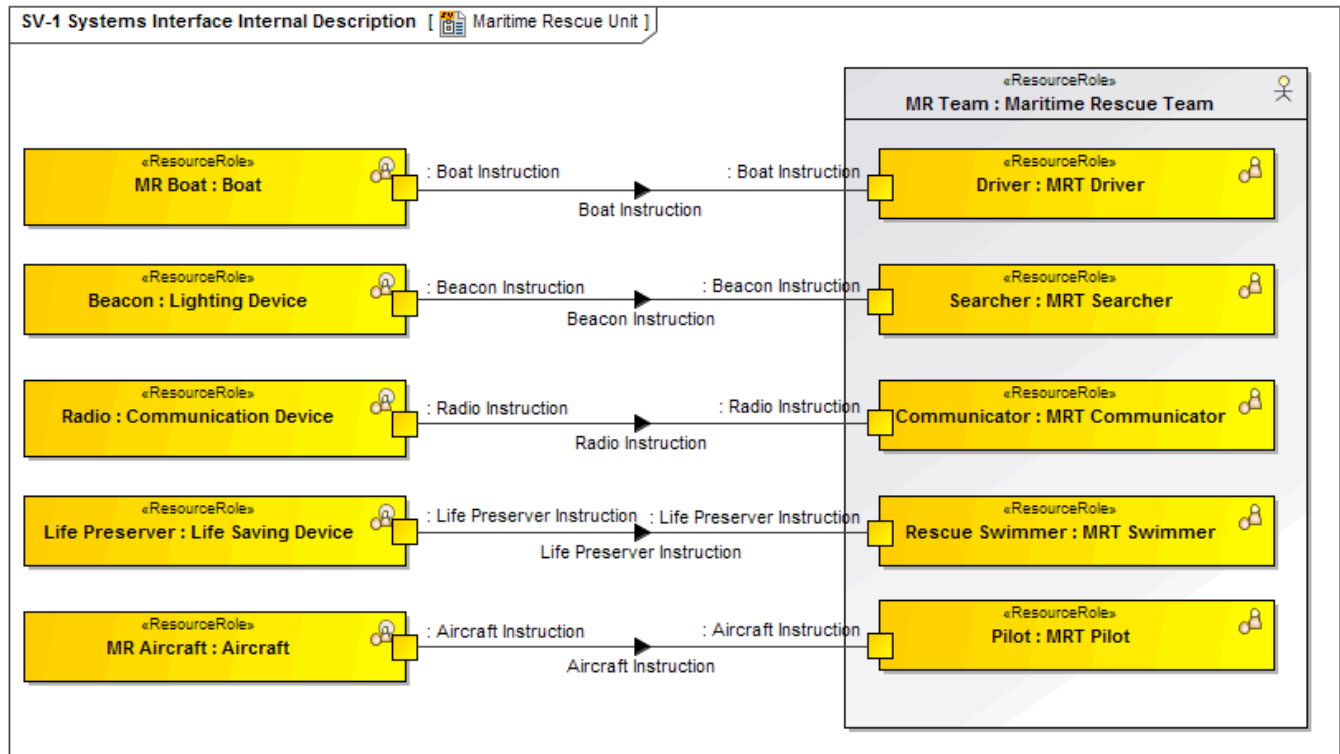
Description

The SV-1 addresses the internal composition and interaction of systems.

Implementation

SV-1 can be represented using:

- SV-1 diagram which is based on the UML Class diagram.
- SV-1 diagram which is based on the UML Composite Structure diagram.
- UML Class diagram.
- UML Composite Structure diagram.
- SysML Block Definition diagram.
- SysML Internal Block diagram.

An SV-1 can optionally be adorned with performers originally specified in an OV-2. In this way, traceability can be established from the logical OV structure to the physical SV structure.

An interaction, as depicted in the SV-1, is an indicator that information passes from one performer to another. In the case of systems, this can be expanded into further detail in an SV-2. Resource flows are summarized in a Systems-Systems Matrix (SV-3).

The system Functions performed by the Nodes are specified in an SV-4 System Functionality Description, but may optionally be overlaid in the SV-1.

An Operational View (OV) suite may specify a set of requirements – either as a specific operational plan, or a scenario for procurement. As OV-2 and OV-5 specify the logical structure and behavior, SV-1 and SV-4 specify the physical structure and behavior (to the level of detail required by the architectural stakeholders).

Related elements

- Resource Role
- Resource Port
- Resource Connector
- Resource Exchange

Related procedures

- Creating SV-1 Internal diagram
- Creating Resource Exchange in SV-1 Internal diagram