P2 Resource Structure

Description

The P2 Resource Structure view addresses the composition and (high-level) interaction of resources.

The P2 view links together the operational and systems architecture views by depicting how resources are structured and interact in order to realize the logical architecture specified in an L2 - Logical Scenario. The P2 view may represent the realization of a requirement specified in an L2 view(i.e. in a to-be architecture) and so there may be many alternative Resource view suites that could realize the operational requirement. Alternatively, in an as-is architecture, the L2 view may simply be a simplified, logical representation of the P2 to allow communication of key information flows to non-technical stakeholders.

The P2 view can be used to specify typical (or template) organization structures, and also identify how human resources interact with each other and with systems.

This view can provide a simplified representation of a pathway or network, usually depicted graphically as a connector (i.e. a line with possible amplifying information). The P2 view depicts interactions between resources that are of interest to the architect. Note that interactions between systems may be further specified in detail in the P3 - Resource Connectivity view.

Resources may be decomposed in the P2 view to any level (i.e. depth) of decomposition that the architect sees fit. This view may also identify the physical asset (e.g. platforms) at which resources are deployed and can show the operational nodes that utilize those resources. In many cases, an operational node depicted in an L2 view may well be the logical representation of the resource shown in the P2 view.

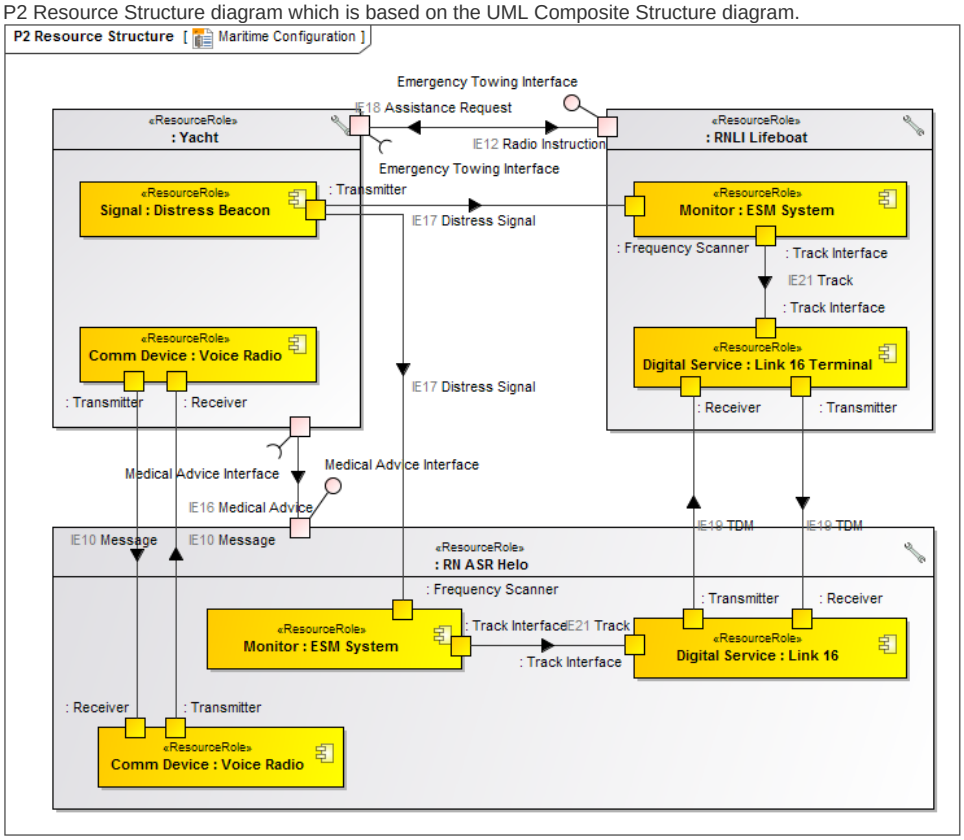
The P2 view may be used for:

- Definition of system concepts.
- Definition of system options.
- Human – System interactions.
- Typical Organization structures.
- Interface requirements capture.
- Capability integration planning.
- System integration management.
- Operational planning (capability configuration definition).

Implementation

The P2 view can be represented using:

- P2 Resource Structure diagram which is based on the UML Composite Structure diagram.



- UML Composite Structure diagram.
- SysML Internal Block diagram.

Related elements

- Resource Role
- Resource Interface
- Resource Port
- Resource Connector
- Operational Port
- Resource Exchange
- Data Element

Related procedures

Unknown macro: 'list-children'