# Resources Constraints

**Description**

The Resources Constraints (Rs-Ct) domain defines limitations, constraints, and performance parameters for resources, their interactions, performed functions, and data. It specifies traditional textual rules/non-functional requirements. The addition of SysML parametrics provide a computational means of defining resource constraints within a specific context.

The intended usage of the Resources Constraints (Rs-Ct) view includes:

- Definition of implementation logic.
- Identification of resource constraints.

**Implementation**

The Resources Constraints (Rs-Ct) view is represented by:

- Resources Constraints table.
- Resources Constraints Definition diagram.
- Resources Constraints Excel Spreadsheet (.xlsx) report.

**Sample**

| # | Applies To | Name | Rule Specification | Rule Kind |
|---|---|---|---|---|
| 1 | Boat | GMDSS Vessel Requirements | Ships subject to Title II Part II and Part III of the Communications Act of 1934, as amended have to fit GMDSS equipment under FCC Regulation 47 CFR 80 Subpart W. These include all ships, including fishing vessels, to be navigated in the open sea outside of a harbor or port, except: Ships other than than passenger vessels less than 300 gross tonnage, Passenger ships having six passengers or less, U.S. Government Ships, Yachts of less than 600 gross tons, Vessels in tow, Ships navigating solely on any bays, sounds, rivers or protected waters within the U.S., Ships being navigated with the Great Lakes of North America, and small passenger ships meeting the requirements of 47 CFR 80 Subpart S. | Constraint |
| 2 | Boat | Marine Vessel Communications | Mariners need to be able to communicate with other ships of any size or nationality. Mariners need to be able to receive and send urgent maritime safety information. Mariners need to be able send or receive distress alerts in an emergency to or from rescue coordination centers ashore and nearby ships anywhere in the world. | Constraint |
| 3 | Boat | Radio Watch Keeping | In general, any vessel equipped with a VHF marine radiotelephone (whether voluntarily or required to) must maintain a watch on channel 16 (156.800 MHz) whenever the radiotelephone is not being used to communicate. | Constraint |
| 4 | Communication Device, Lighting Device | Distress System Usage | The radiotelephone alarm signal is used only in a distress, including when a person has been lost overboard and the assistance of other vessels is required | Constraint |
| 5 | Communication Device | GDMSS Equipment Operation | A GDMSS Radio Operator's License is necessary for a person to use required GDMSS equipment. | Constraint |

An example of the Resources Constraints table

**Related elements**

- Actual Resource
- Capability Configuration
- Data Element
- Function
- Natural Resource
- Organization
- Organizational Resource
- Person
- Physical Resource
- Post
- Resource Architecture
- Resource Artifact
- Resource Constraint
- Resource Performer
- Resource Role
- Responsibility
- Rule
- Subject Of Resource Constraint

**Related procedures**

Unknown macro: 'list-children'

- Generating document based reports