

# P1 Resource Types

## Description

The P1 Resource Types view specifies the types of Resources, Technology and Competences required for the architecture. It can also be used to specify properties of Resources. This view collects together all the Resource Types in the architecture. It can also be used to identify Technologies and Competences and map these to resource types. Technologies and Competences can also be set against a timeline indicating when they are expected to be in use.

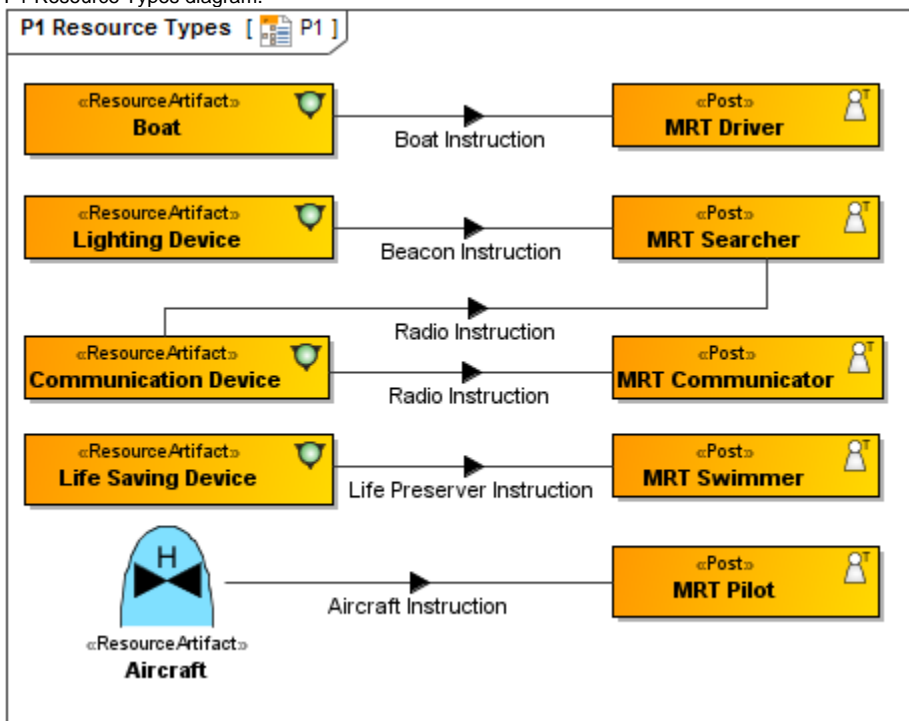
The P1 view may be used for:

- Identifying Resource Taxonomies.
- Forecasting technology readiness against time.
- HR trends analysis.
- Recruitment planning.
- Planning technology insertion.
- Input to options analysis.
- Definition of performance characteristics.
- Identification of non-functional requirements (input to SRD).

## Implementation

The P1 view can be represented using:

- P1 Resource Types diagram.



- P1 Systems to Systems Matrix.













	C2 Center	Distress Beacon	ESM System	Frequency Scanner	Link 16	Link 16 Terminal	Maritime Configuration	Monitor Unit	Naval Ship	Receiver	RN ASR Helo	RNLI Lifeboat	Signal Processor	Status Alerting	Track Interface	Transmitter	Voice Radio	Yacht
C2 Center																		
Distress Beacon																		
ESM System																		
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Track Interface																		
Transmitter																		
Voice Radio																		
Yacht																		

- P1 Resource Types Typical Quality Requirements table.

Criteria			
Scope (optional): <input type="text" value="Drag elements from the Model Browser"/> <input type="button" value="..."/> Filter: <input type="text" value="Q"/>			
#	Measurement Set	Measurement	Resource
1	Signal Processor Measurements	Comms Channel Bandwidth Support : GB	Signal Processor
2	Status Alerting Measurements	Min. Status Change Alert Accuracy : meters Min. Alert Response Time : seconds	Status Alerting
3	Voice Radio Receiver Measurements	Gain : dB Signal To Noise Ratio : dB	Receiver
4	Voice Radio Transmitter Measurements	Transmission Rate : GB	Transmitter

- P1 Resource Types Actual Quality Requirements table.

Criteria				
Scope (optional): <input type="text" value="Drag elements from the Model Browser"/> <input type="button" value="..."/> Filter: <input type="text" value="Q"/>				
#	Resource	Performance Requirement	Measure	Metric
1	Receiver	Gain	60	dB
2	Receiver	Signal To Noise Ratio	20	dB
3	Signal Processor	Comms Channel Bandwidth Support	2	GB
4	Status Alerting	Min. Status Change Alert Accuracy	500	meters
5	Status Alerting	Min. Alert Response Time	30	seconds
6	Transmitter	Transmission Rate	2	GB

- | Criteria                                                                            |                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scope (optional): <input type="text" value="Drag elements from the Model Browser"/> |                                                                                                                                                                                                    | <input type="button" value="..."/>                                                                                                                                                                                                                                                                                           | Filter: <input type="text" value="Q"/>                                                                                                                                                                    |
| #                                                                                   | Technology area                                                                                                                                                                                    | From: 2008-04-16<br>To: 2009-04-16                                                                                                                                                                                                                                                                                           | From: 2009-04-16<br>To: 2010-04-16                                                                                                                                                                        |
| 1                                                                                   |  Helicopter                                                                                                       |  Sikorsky S-61                                                                                                                                                                                                                              |  Augusta Westland 139<br> Sikorsky S92A |
| 2                                                                                   |  Maritime Rescue Coordination Center Software                                                                     |                                                                                                                                                                                                                                                                                                                              |  Airwave                                                                                                                 |
| 3                                                                                   |   Compass-Sarsat System Standard |  Beacon alert 243 MHz<br> Beacon alert 406 MHz<br> Beacon alert 121.5 MHz |  Beacon alert 406 MHz                                                                                                    |

- | Criteria |    | Select Row Scope:                                | S1 | ... | Select Column Scope: | P1 | ... |
|----------|----|--------------------------------------------------|----|-----|----------------------|----|-----|
|          |    | Aircraft [Physical Resource:P1]                  |    |     |                      |    |     |
|          |    | Airwave [Physical Resource:P1]                   |    |     |                      |    |     |
|          |    | Augusta Westland 139 [Physical Resource:P1]      |    |     |                      |    |     |
|          |    | Boat [Physical Resource:P1]                      |    |     |                      |    |     |
|          |    | Channel Navigation Information Center [Phy...]   |    |     |                      |    |     |
|          |    | Communication Device [Physical Resource:P1]      |    |     |                      |    |     |
|          |    | Compass-Sarasat System [Physical Resource:P1]    |    |     |                      |    |     |
|          |    | Fixed Wing Aircraft [Physical Resource:P1]       |    |     |                      |    |     |
|          |    | Helicopter [Physical Resource:P1]                |    |     |                      |    |     |
|          |    | Land Rescue Unit [Physical Resource:P1]          |    |     |                      |    |     |
|          |    | Life Saving Device [Physical Resource:P1]        |    |     |                      |    |     |
|          |    | Lighting Device [Physical Resource:P1]           |    |     |                      |    |     |
|          |    | Maritime Rescue Coordination Center Softwa...    |    |     |                      |    |     |
|          |    | Maritime Rescue Team [Physical Resource:P1]      |    |     |                      |    |     |
|          |    | Maritime Rescue Unit [Physical Resource:P1]      |    |     |                      |    |     |
|          |    | Maritime Rescue Unit Day Shift [Physical Res...  |    |     |                      |    |     |
|          |    | Maritime Rescue Unit Night Shift [Physical Re... |    |     |                      |    |     |
|          |    | Maritime Rescue Unit Night Shift Extreme [Ph...  |    |     |                      |    |     |
|          |    | Maritime Rescue Unit Night Shift Fast [Physic... |    |     |                      |    |     |
|          |    | Maritime Rescue Unit V2 [Physical Resource:...]  |    |     |                      |    |     |
|          |    | MRT Communicator [Physical Resource:P1]          |    |     |                      |    |     |
|          |    | MRT Driver [Physical Resource:P1]                |    |     |                      |    |     |
|          |    | MRT Pilot [Physical Resource:P1]                 |    |     |                      |    |     |
|          |    | MRT Searcher [Physical Resource:P1]              |    |     |                      |    |     |
|          |    | MRT Swimmer [Physical Resource:P1]               |    |     |                      |    |     |
|          |    | Sikorsky S92A [Physical Resource:P1]             |    |     |                      |    |     |
|          |    | Sikorsky S-61 [Physical Resource:P1]             |    |     |                      |    |     |
|          | S1 | Ambulance Service                                |    |     |                      |    |     |
|          |    | Channel Navigation Information Service           |    |     |                      |    |     |
|          |    | Emergency Towing Cover Service                   |    |     |                      |    |     |
|          |    | Fire and Rescue Service                          |    |     |                      |    |     |
|          |    | Land Search & Rescue Service                     |    |     |                      |    |     |
|          |    | Maritime Search & Rescue Service                 |    |     |                      |    |     |
|          |    | Mayday                                           |    |     |                      |    |     |
|          |    | Monitor                                          |    |     |                      |    |     |
|          |    | Mountain Rescue Team Service                     |    |     |                      |    |     |
|          |    | Police Service                                   |    |     |                      |    |     |
|          |    | Rescue                                           |    |     |                      |    |     |
|          |    | Search                                           |    |     |                      |    |     |
|          |    | Search & Rescue Service                          |    |     |                      |    |     |
|          |    | UK Radio Medical Advice Service                  |    |     |                      |    |     |
|          |    | UK Radio Weather Forecast Information Service    |    |     |                      |    |     |

- Resource Artifact
- Software
- Capability Configuration
- Organization
- Post
- Resource Role
- Resource Interface
- Resource Port
- Resource Connector
- Capability
- Exhibits
- Fielded Capability
- Operational Port
- Service Interface
- Resource Exchange
- Control
- Data Element
- Natural Resource
- Measurement Set
- Measurement
- Actual Measurement
- Actual Property Set
- Forecast
- Protocol
- Standard

## Related procedures

- Creating P1 Resource Types diagram
  - Creating Resource Exchange in P1 diagram
  - Creating P1 Resource Types Typical Quality Requirements table
  - Creating P1 Resource Types Actual Quality Requirements table
  - Generating P1 Actual table from P1 Typical table
  - Creating P1 Systems to Systems Matrix
  - Creating P1 Technology Forecast table
  - Creating P1 Service Provision matrix
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- Generating document based reports
  - Using Implied Relations