





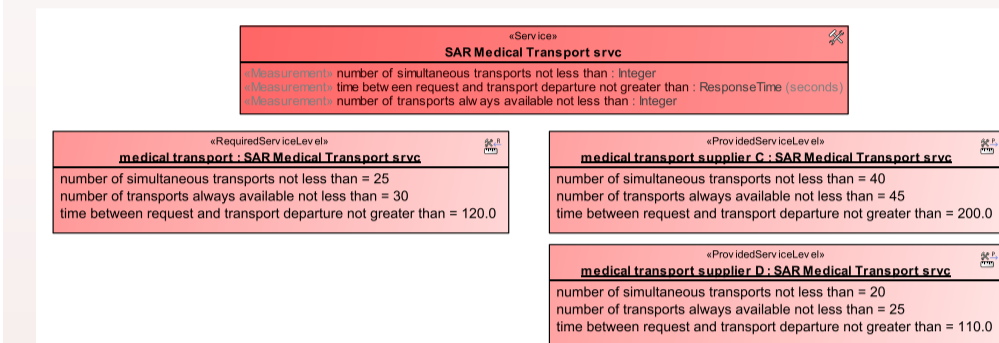
### SERVICES VIEWPOINT

The **Services (Sv)** viewpoint provides a description of services and specifies required and provided service levels for the services needed to exhibit capabilities and to support operational activities.

#### Services Taxonomy

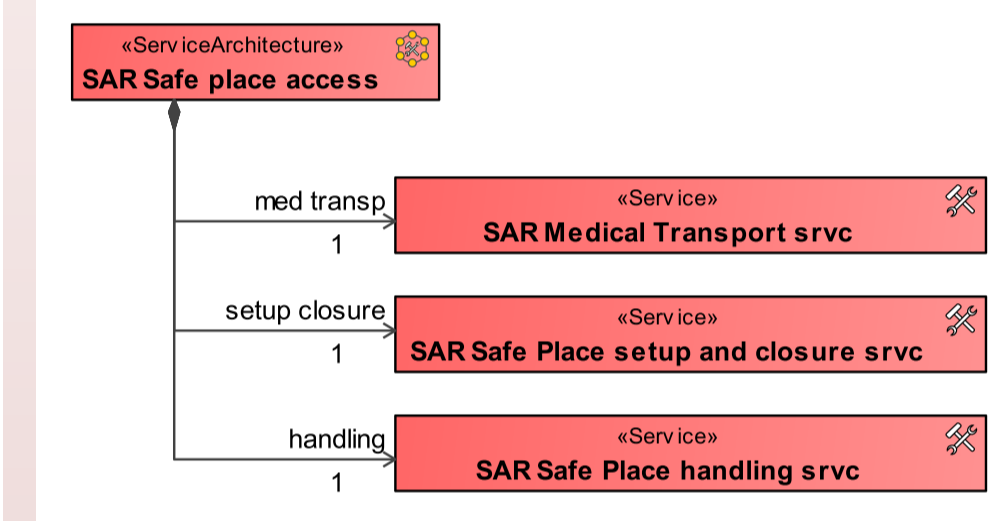
The **Services Taxonomy (Sv-Tx)** diagram captures the taxonomy of Services and the level of service that they are expected to provide or are required to meet.

**Service:** the specification of a set of functionalities provided by one element for the use of others.



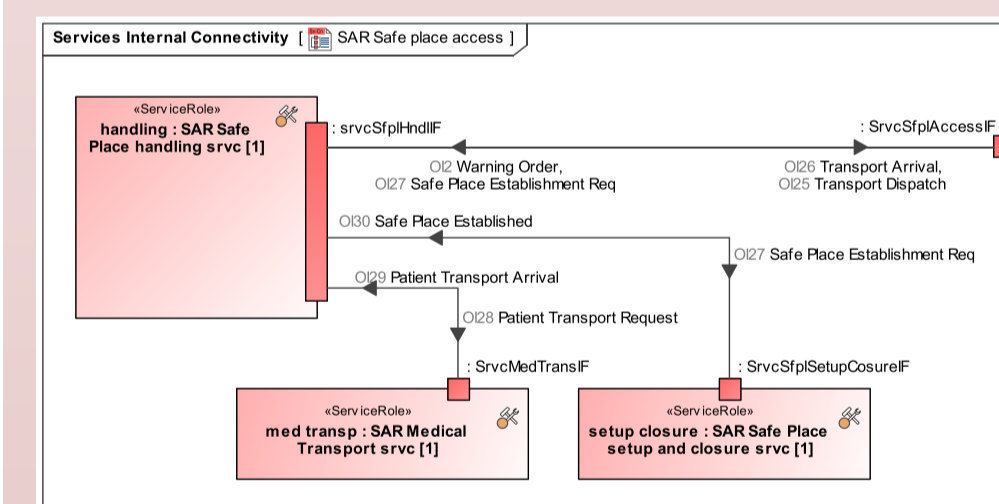
#### Services Structure

The **Services Structure (Sv-Sr)** shows the composition of Services and how Services are combined into a higher-level Service or Service Architecture required to exhibit a Capability or support an Operational Activity.



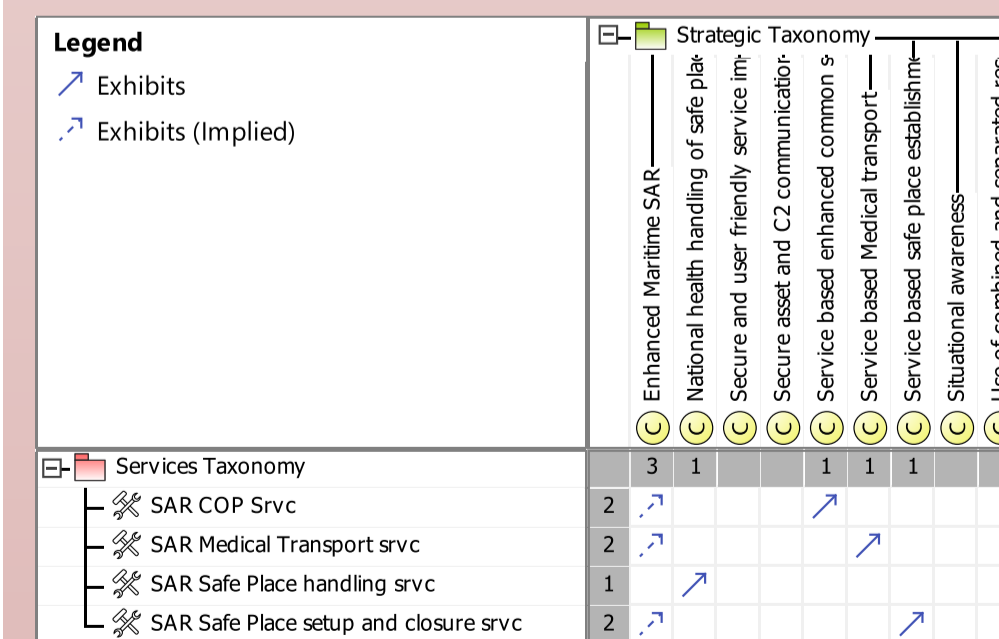
#### Services Connectivity

The **Services Connectivity (Sv-Cn)** shows the interoperability among Services. It specifies Service Interfaces to ensure compatibility and reusability of Services.



#### Service Traceability

The **Services Traceability (Sv-Tr)** captures the traceability between Operational Activities and Services that support them. It also shows how Services contribute to the achievement of a Capability.



### RESOURCES VIEWPOINT

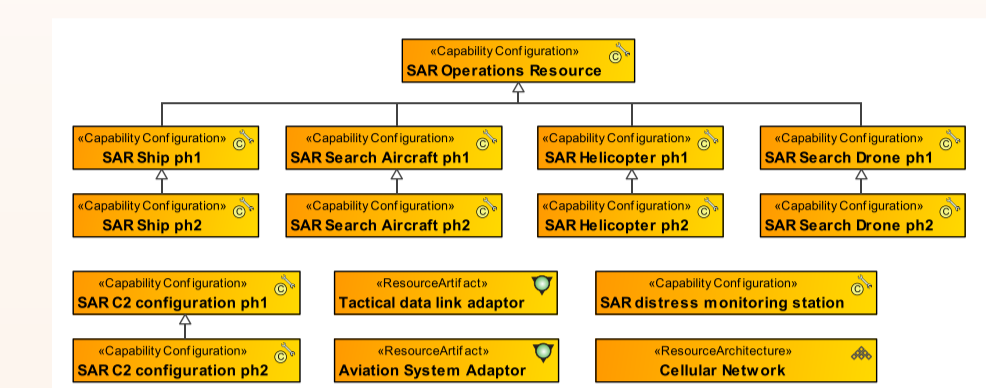
The **Resources (Rs)** viewpoint concerns at definition of solution architectures to implement operational requirements. It captures a solution architecture consisting of resources, e.g. organizational, software, artifacts, capability configurations, natural resources that implement the operational requirements.

#### Resources Taxonomy

The **Resources Taxonomy (Rs-Tx)** shows the taxonomy of resources types.

**Capability Configuration:** A composite structure representing the physical and human resources (and their interactions) in an enterprise, assembled to meet a Capability.

**Resource Artifact:** A type of man-made object that contains no human beings.



#### Resources Connectivity

The **Resources Internal Connectivity (Rs-Cn)** captures the resource structure, connectors and interfaces in a specific context. It defines the physical resources, e.g. capability configuration(s)/system(s) and interactions necessary to implement a specific set of Operational Performer(s).

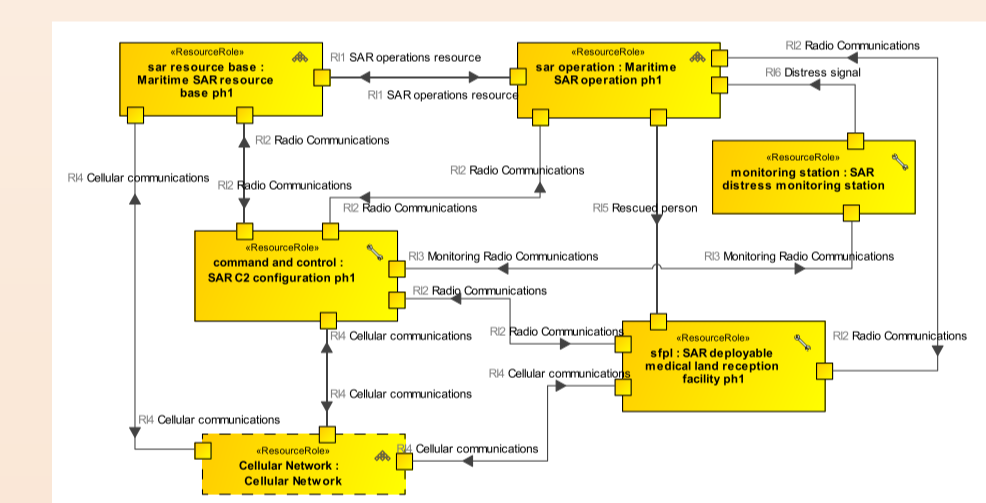
**Resource Role:** Usage of a Resource Performer in the context of another Resource Performer creating a whole-part relationship.

**Resource Port:** Port is an interaction point for a resource through which it can interact with the outside environment and which is defined by a Resource Interface.

**Resource Connector:** A channel for exchange between two Resource Roles.

**Resource Interface:** A contractual agreement between two resources. It is also intended to be an implementation of a specification of an Interface in the Business and/or Service layer.

**Resource Exchange:** Asserts that a flow can exist between resources (i.e. flows of data, people, material, or energy).

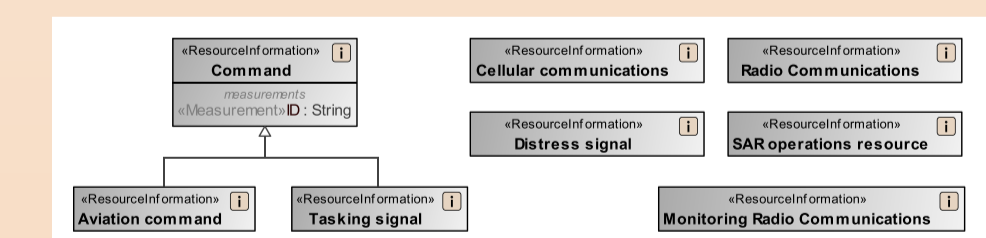


The **Resources Connectivity (Rs-Cn)** table summarizes the exchanges between resources of information, systems, personnel, natural resources etc. and the functions that produce and consume them.

Id	Technology Area	Current ver	Enhanced ver	From	To
1	Maximo SAR Resource Architecture	2021-09-01	2024-12-31	2021-09-01	2024-12-31
2	UAV Search Technology	2021-09-01	2024-12-31	2021-09-01	2024-12-31

#### Resources Information

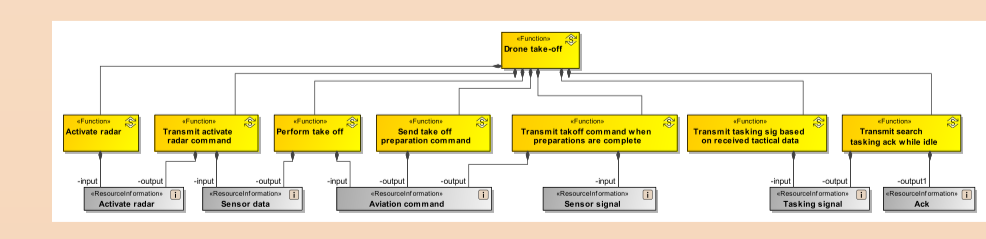
The **Resources Information (Rs-If)** shows the information perspective on resource architecture. It allows analysis of an architecture's information and data definition aspect, without consideration of implementation specific issues.



#### Resources Processes

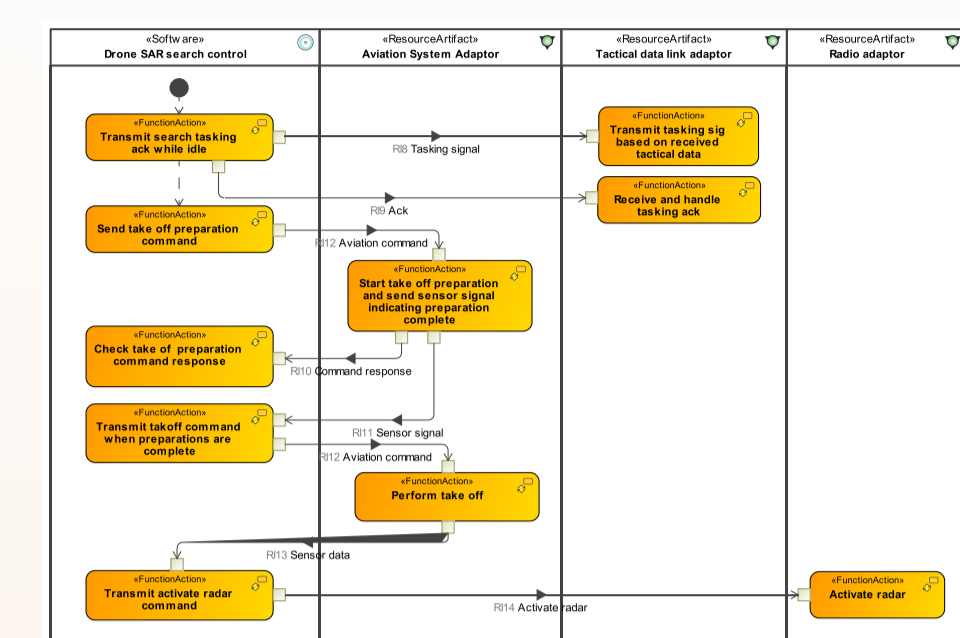
The **Resources Processes (Rs-Pr)** diagram describes the Functions that are normally conducted in the course of implementing Operational Activities in support of Capabilities.

**Function:** An Activity which is specified in the context of the Resource Performer (human or machine) that is Capable Of Performing it.



The **Resources Process Flow (Rs-Pr)** diagram shows activity based behavior and flows. It describes the Functions, their inputs/outputs, Function Actions and flows between them.

**Function Action:** A call of a Function indicating that the Function is performed by a Resource Role in a specific context.

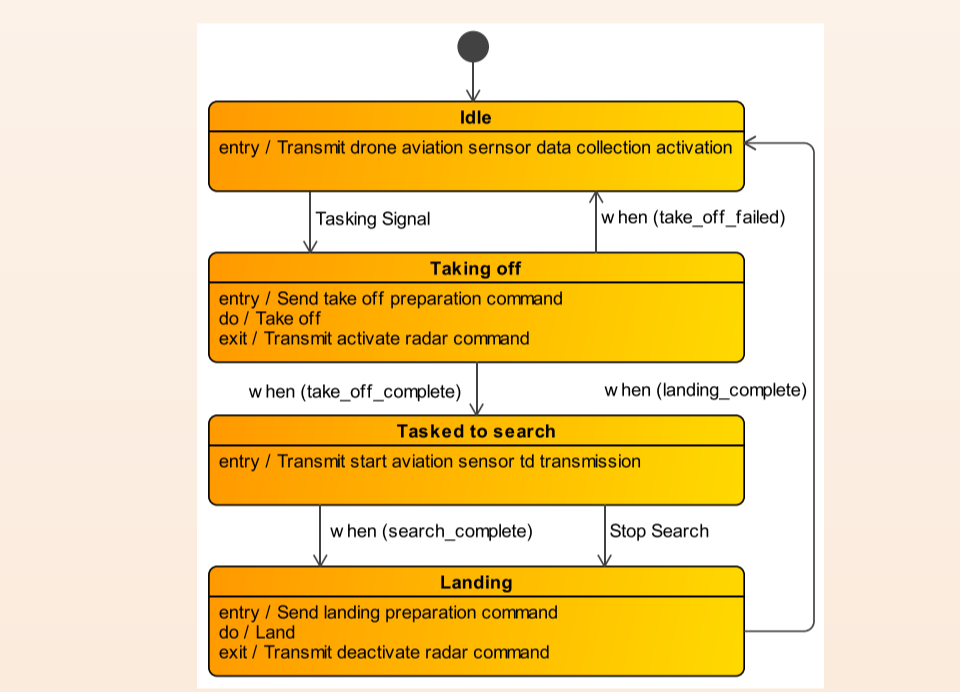


#### Resources States

The **Resources States (Rs-St)** describes the behavior of a Resource Performer, depicting how the Resource Performer responds to the various events and actions.

**State:** A description of the condition of an object in terms of the values of its various properties and relationships.

**Transition:** A change from one state to another, including an option Trigger, Signal, Operation Call, and guard conditions.



#### Resources Constraints

The **Resources Constraints (Rs-Ct)** table specifies traditional textual rules/non-functional requirements that are constraints on resources, their interactions, performed functions, and data.

**Resource Constraint:** A rule governing the structural or functional aspects of an implementation

#	Applies To	Rule Specification	Rule Kind
1	Aviation System Adaptor	Communications shall be encrypted	Constraint
2	Radio adaptor		

#### Resources Roadmap

The **Resource Evolution (Rs-Rm-E)** provides an overview of how a resource structure changes over time. It shows the structure of several resources mapped against a timeline.

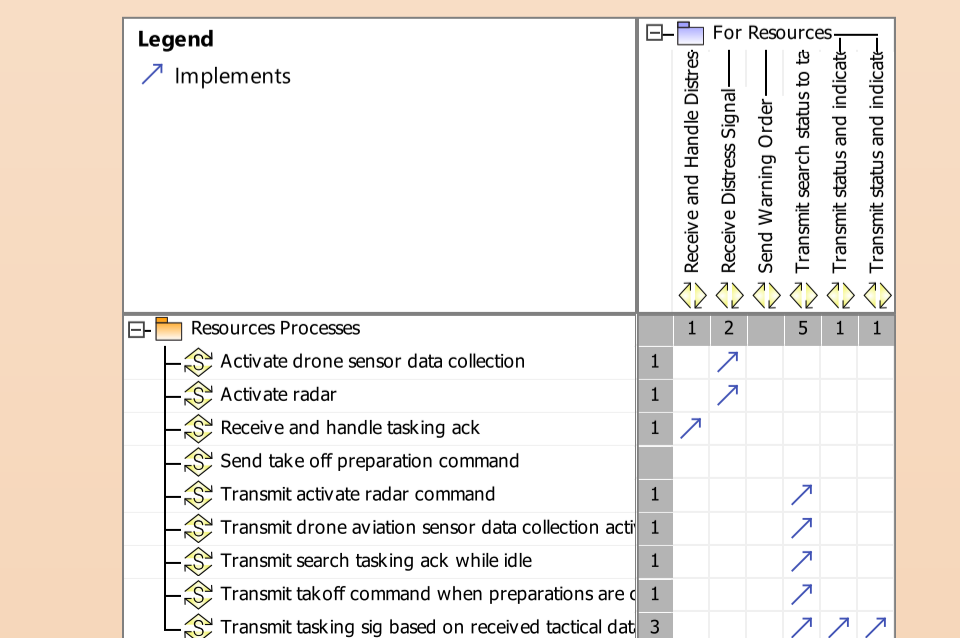


The **Resource Forecast (Rs-Rm-F)** defines the underlying current and expected supporting technologies.

#	Technology Area	Current ver	Enhanced ver	From	To
1	Maximo SAR Resource Architecture	2021-09-01	2024-12-31	2021-09-01	2024-12-31
2	UAV Search Technology	2021-09-01	2024-12-31	2021-09-01	2024-12-31

#### Resources Traceability

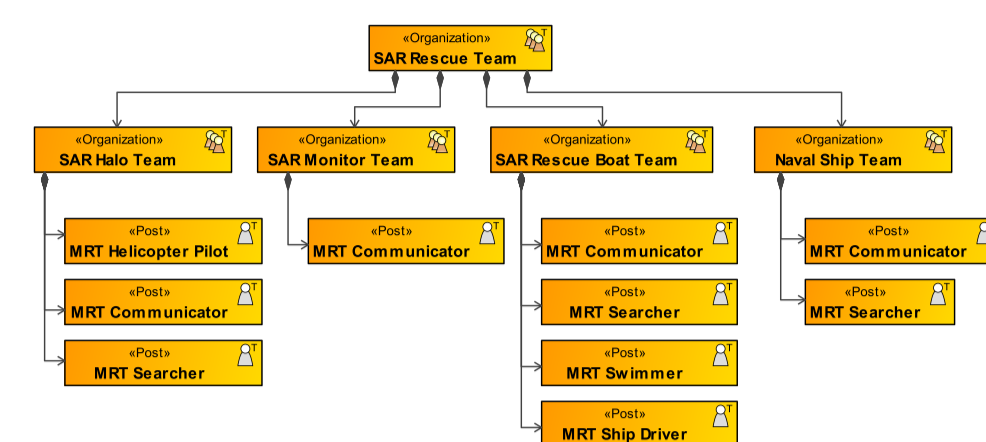
The **Resources Traceability (Rs-Tr)** depicts the mapping of Functions to Operational Activities and thus identifies the transformation of an operational need into a purposeful function performed by a resource or solution.



### PERSONNEL VIEWPOINT

#### Personnel Structure

The **Personnel Structure (Ps-Sr)** diagram shows organizational structures and possible interactions between Organizational Resources.

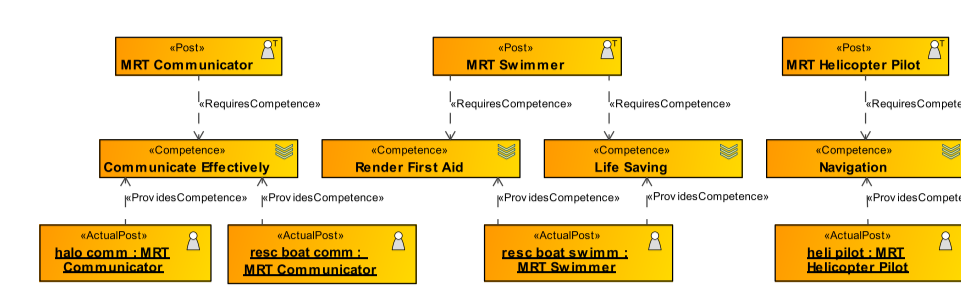


#### Personnel Constraints

The **Personnel Constraints (Ps-Ct)** specifies requirements for actual organizational resources – by linking competencies and actual posts.

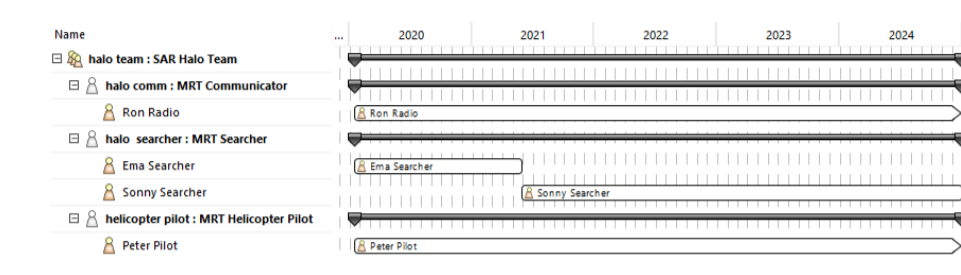


**Competence:** A specific set of abilities defined by knowledge, skills and aptitude.



#### Personnel Roadmap

The **Personnel Availability Roadmap (Ps-Rm-A)** shows the staffing and training of organizational resources. It defines the requirements and functions to ensure that Actual Persons with the right Competencies, and in the right numbers, are available to fulfill Actual Posts.



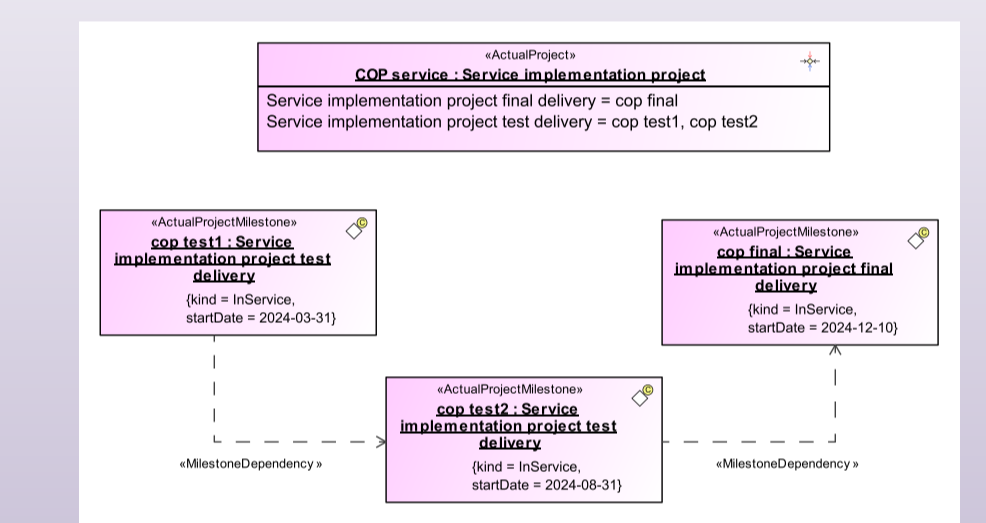
### PROJECTS VIEWPOINT

#### Projects Connectivity

The **Projects Connectivity (Pj-Cn)** shows how projects and project milestones are related in sequence

**Actual Project:** A time-limited planned endeavor executed by an Actual Organization responsible for developing, deploying or decommissioning Resource Performers in accordance with Actual Project Milestones.

**Actual Project Milestone:** An event with a start date in an Actual Project from which progress is measured.



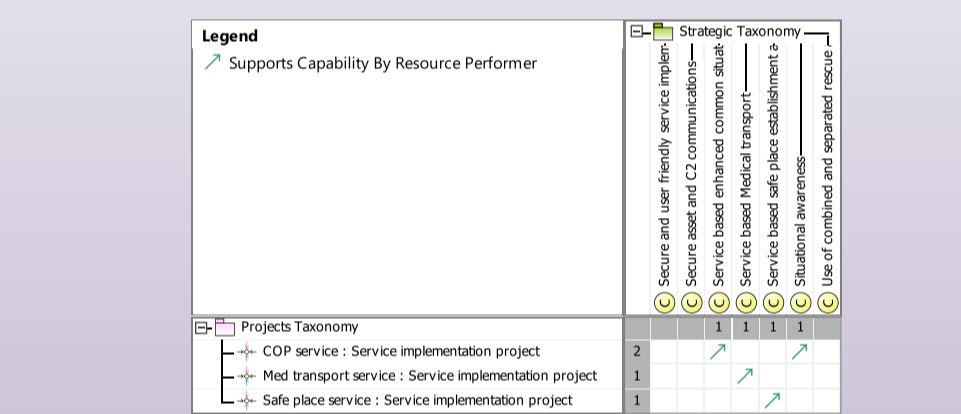
#### Projects Roadmap

The **Projects Roadmap (Pj-Rm)** chart provides a timeline perspective on programs or projects.



#### Projects Traceability

The **Projects Traceability (Pj-Tr)** is a matrix correlating Actual Projects to the Capabilities they deliver.



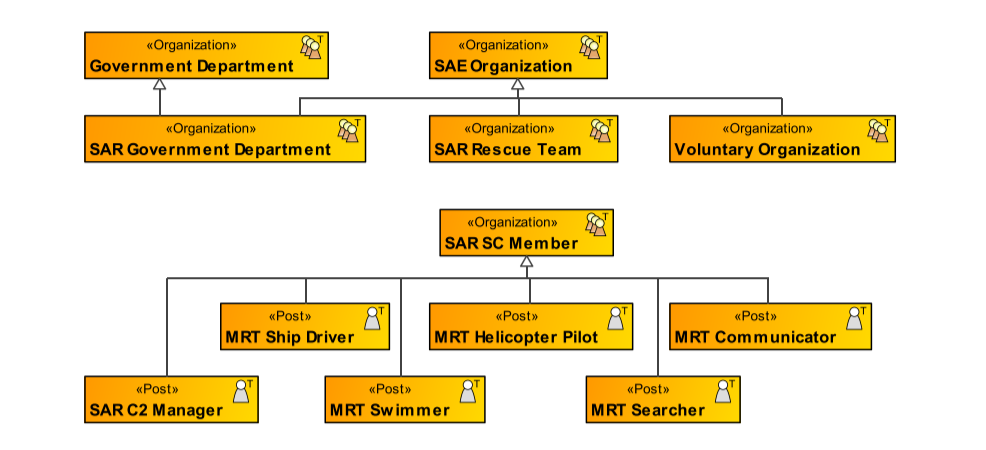
The **Personnel (Ps)** viewpoint shows the human factors with the aim to clarify the role of human factors when creating architectures in order to facilitate both Human Factors Integration and Systems Engineering.

#### Personnel Taxonomy

The **Personnel Taxonomy (Ps-Tx)** diagram defines kinds of organizational (human) resource elements required to support common or modular design and structure.

**Organization:** a group of organizational resources (Persons, Posts, Organizations and Responsibilities) that are associated for a purpose.

**Post:** a type of job title or position that a Person can fill.



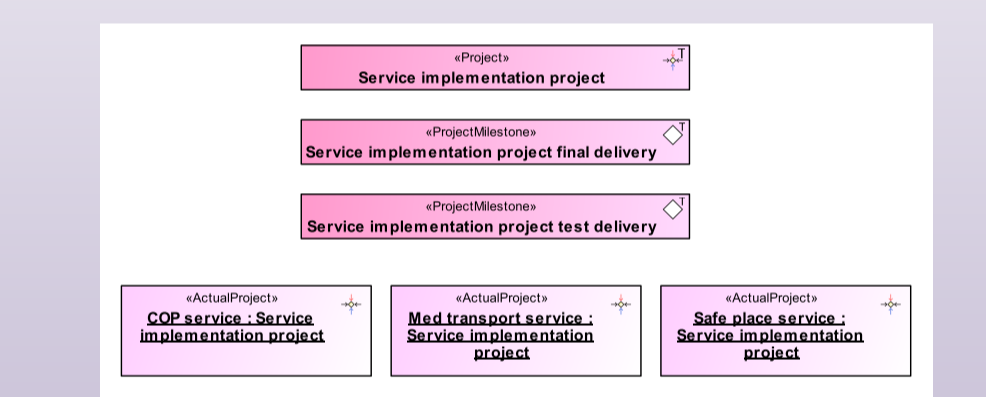
The **Projects (Pj)** viewpoint concerns at project portfolio, projects and project milestones. It describes projects and project milestones, how those projects deliver capabilities, the organizations contributing to the projects and dependencies between projects.

#### Projects Taxonomy

The **Projects Taxonomy (Pj-Tx)** view shows the taxonomy of Projects and Project Milestones.

**Project:** A planned endeavor executed by an Actual Organization responsible for developing, deploying or decommissioning Resource Performers in accordance with Actual Project Milestones.

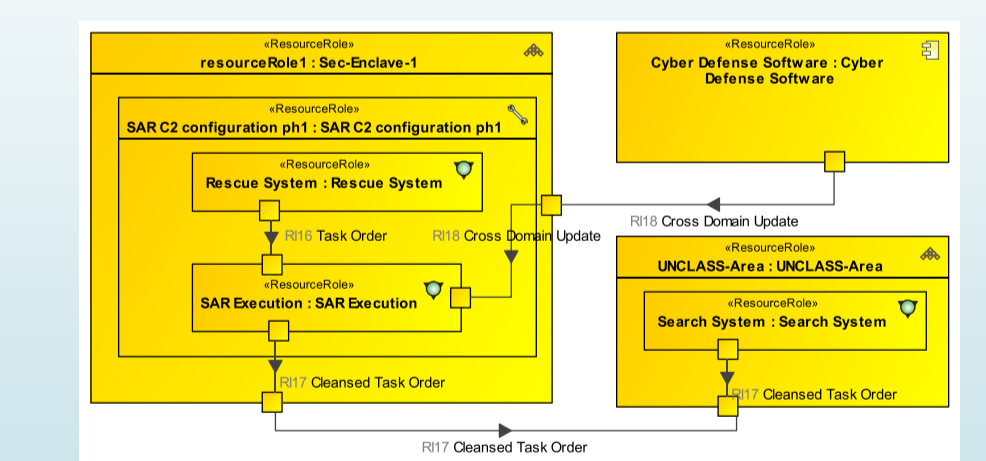
**Milestone:** A type of event in a Project by which progress is measured.



### SECURITY VIEWPOINT

#### Security Connectivity

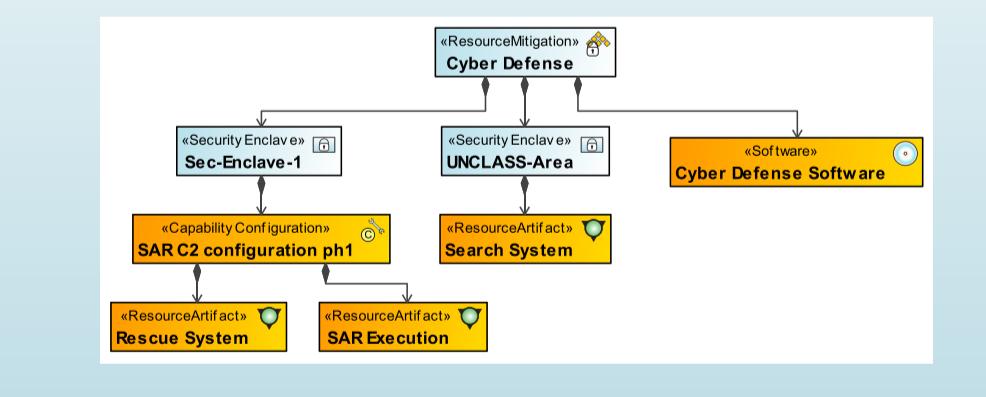
The **Security Connectivity (Sc-Cn)** lists security exchanges across security assets; the applicable Security Controls; and the Security Enclaves that house the producers and consumers of the exchanges.



The **Security (Sc)** viewpoint illustrates the security assets, security constraints, security controls, families, and measures required to address specific security concerns.

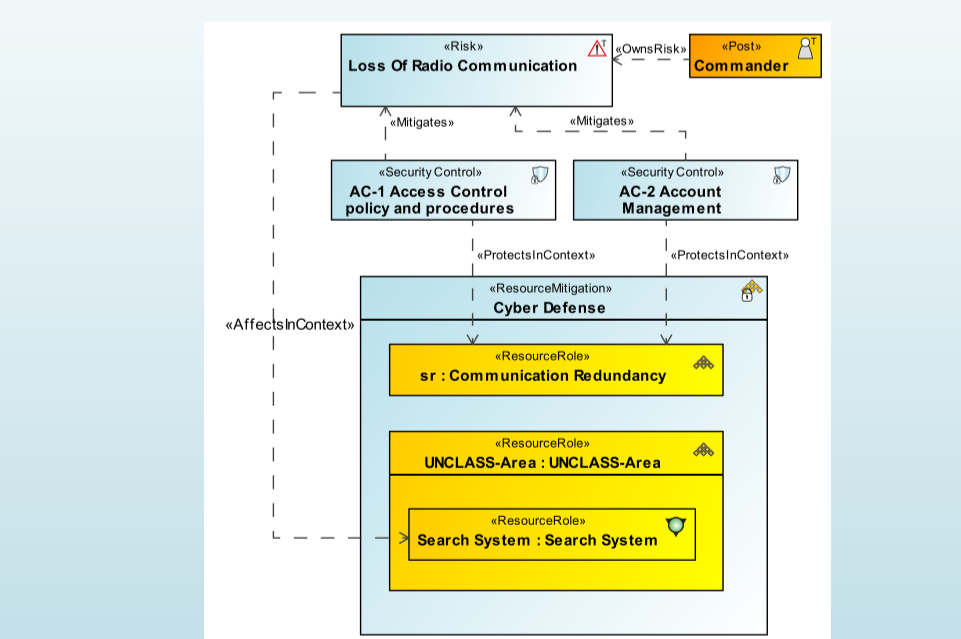
#### Security Structure

The **Security Structure (Sc-Sr)** captures the allocation of assets (operational and resource, information and data) across the Security Enclaves, shows applicable Security Controls necessary to protect organizations, systems and information during processing, while in storage (bdd), and during transmission (flows on an ibd).



#### Security Traceability

The **Security Traceability (Sc-Tr)** shows traceability between Risk and Risk owner, Risk mitigations, and affected asset roles



### STANDARDS VIEWPOINT

#### Standards Roadmap

The **Standards Roadmap (Sd-Rm)** defines the underlying current and expected Standards. Expected Standards are those that can be reasonably forecast given the current state of technology and expected improvements / trends.

#	Technology Area	Current ver	Enhanced ver	From	To
1	Performance of Water Rescuer	2021-09-01	2024-12-31	2021-09-01	2024-12-31
2	Distress Monitoring	2021-09-01	2024-12-31	2021-09-01	2024-12-31

#### Standards Traceability

The **Standards Traceability (Sd-Tr)** shows the applicability of Standards to specific elements in the architecture.

#	System element	Standard / Policy
1	SAR Rescue Boat Team	ASTM F1739-96/2007/Standard Guide for Performance of a Water Rescuer-Level 1
2	SAR distress monitoring sta.	ASTM F1824-97/2007/Standard Guide for Performance of a Water Rescuer-Level 2
3	SAR Ship ph1	ASTM F1739-96/2007/Standard Guide for Performance of a Water Rescuer-Level 1

