Implementation Matrix

Description

The Implementation Matrix describes the mapping between the Systems and Operational Elements directly or using the implied relations.

The DoDAF, MODAF, NAF, and UAF Operational viewpoint elements should be implemented by the Systems / Resources or Services viewpoint elements. The implementation in UAF is defined by the Implements relationship. It connects implementation and specification elements. In order to specify the implementation and analyze implementation gaps the Implementation Matrix is added as a supportive product for UAF.

Implementation

An Implementation Matrix can be represented by a Dependency Matrix based diagram. The implementation elements will be used as the row elements and specification (implemented) elements will be used as the column elements.

To be more specific, systems elements are: System Resources, Functions, and Resource Exchanges.

Operational elements are: Operational Performers, Operational Activities, and Operational Exchanges.

Service oriented element is Service Function.

Sample

	Monitoring Node [Operational Viewpoint::OV-2]	Person In Distress [Operational Viewpoint::OV-2]	Place Of Safety [Operational Viewpoint::OV-2]	Rescue Day Shift [Operational Viewpoint::OV-2]	Rescue Night Shift [Operational Viewpoint::OV-2]	Rescue Node [Operational Viewpoint::OV-2]	SAR Asset Controller [Operational Viewpoint::OV-2]	SAR Concept [Operational Viewpoint::OV-2]	Search Node [Operational Viewpoint::OV-2]	Tactical C2 Node [Operational Viewpoint::OV-2]
Aircraft [Systems Viewpoint::SV-1]									↗	
Airwave [Systems Viewpoint::SV-1]										
Augusta Westland 139 [Systems Viewpoint::SV-1]										
Boat [Systems Viewpoint::SV-1]									↗	
C2 Center [Systems Viewpoint::SV-2]										↗
Helicopter [Systems Viewpoint::SV-1]										
Yacht [Systems Viewpoint::SV-2]		↗								
Maritime Rescue Coordination Center Software [Systems Viewpoint::SV-1]										
Maritime Rescue Team [Systems Viewpoint::SV-1]								↗		
Maritime Rescue Unit V2 [Systems Viewpoint::SV-1]						↗				
Monitor Unit [Systems Viewpoint::SV-2]	↗									
MRT Communicator [Systems Viewpoint::SV-1]									↗	
MRT Driver [Systems Viewpoint::SV-1]							↗			
MRT Pilot [Systems Viewpoint::SV-1]										
MRT Searcher [Systems Viewpoint::SV-1]									↗	
MRT Swimmer [Systems Viewpoint::SV-1]						↗				
Naval Ship [Systems Viewpoint::SV-2]			↗						↗	

Predefined configurations

There are several types of predefined implementation matrices:

- Operational Performers Implementation Matrix. It maps Operational Performers to System Resources only.
- Operational Activities Implementation Matrix. It maps Operational Activities to Functions.
- Operational Exchanges Implementation Matrix. It maps Operational Exchanges to Resource Exchanges.

You can find predefined matrices by clicking **Analyze** > **OV-SV Gap analysis**.

These matrices provide analysis of the whole model of a particular implementation, so you do not have to define the scope or any additional properties for building them.

Related elements

- System
- Function
- Resource Exchange
- Operational Performer
- Operational Activity
- Operational Exchange

Related procedures

- Creating Implementation Matrix
- Using Implied Relations