

SV-5b Operational Activity to Systems Traceability Matrix

Description

The SV-5b addresses the linkage between described in [SV-1 Systems Functionality Description](#) and Operational Activities specified in [OV-5a Operational Activity Decomposition Tree](#) or [OV-5b Operational Activity Model](#). The SV-5b depicts the mapping of systems and, optionally, the capabilities and nodes that provide them to operational activities. The SV-5b identifies the transformation of an operational need into a purposeful action performed by a system or solution.

During requirements definition, the SV-5b plays a particularly important role in tracing the architectural elements associated with system requirements to those associated with user requirements.

The intended usage of the SV-5b includes:

- Tracing system requirements to user requirements.
- Tracing solution options to requirements.
- Identification of overlaps or gaps.

Implementation

SV-5b can be represented using a SV-5b diagram which is a non-editable Dependency Matrix. Resources are used as row elements and Operational Activities are used as column elements.

	Coordinate Other Agencies [Oper...	Find Victim [Operational Viewpoint...	Firefight [Operational Viewpoint::...	Investigate Reports Of MissingPe...	Monitor Health [Operational View...	Process Warning Order [Operatio...	Provide continuous radar surveilla...	Provide emergency towing cover i...	Provide Medical Assistance [Oper...	Receive Distress Signal [Operatio...	Recover Victim [Operational View...	Rescue [Operational Viewpoint::...	Search [Operational Viewpoint::O...	Search & Rescue(: Medical Cond...	Send Distress Signal [Operational ...	Send Warning Order [Operational...	Solve incident involving chemicals ...	Solve incidents in all areas of inho...	Transit To SAR Operation [Opera...	Transport Patient [Operational Vi...	Treat Patient [Operational Viewp...
SV-2									1					2							
Distress Beacon																					
ESM System																					
Frequency Scanner																					
Link 16																					
Link 16 Terminal																					
Naval Ship																					
Receiver																					
Signal Processor																					
Track Interface																					
Transmitter																					
Voice Radio																					

The SV-5b is generally presented as a matrix of the relationship between system resources and activities and can be a summary of the Operational Activity to System Function Traceability Matrix ([SV-5a](#)). The SV-5b can show requirements traceability with Operational Activities on one axis of a matrix, the System Functions on the other axis, and with an X, date, or phase in the intersecting cells, where appropriate.

Related elements

- [Resource Artifact](#)
- [Function](#)
- [Operational Activity](#)
- [Is Capable To Perform](#)
- [Implements](#)

Related procedures

- [Creating SV-5b matrix](#)
- [Resources to Capabilities Mapping matrix](#)
- [Using Implied Relations](#)

