

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 performers 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. Systems are used as row elements and Operational Activities are used as column elements.

	Find Victim	Monitor Health	Process Warning Order	Receive Distress Signal	Recover Victim(Track Info Out : Updated Location)	Rescue	Search	Send Distress Signal	Send Warning Order	Transit To SAR Operation
SV-2	2							6		
Distress Beacon										
ESM System										
Frequency Scanner										
Link 16										
Link 16 Terminal								X		
Naval Ship										
Receiver										
Signal Processor										
Track Interface										
Transmitter										
Voice Radio				X				X		

The SV-5b is generally presented as a matrix of the relationship between systems 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

- System
- Function
- Operational Activity
- Activity Performed By Performer
- Implements

Related procedures

- [Creating SV-5b matrix](#)