

# SV-3 Systems-Systems Matrix

## Description

A SV-3 enables a quick overview of all the system resource interactions specified in one or more [SV-1 Systems Interface Description](#) models. The SV-3 provides a tabular summary of the system interactions specified in the [SV-1 Systems Interface Description](#) model for the Architectural Description. The matrix format supports a rapid assessment of potential commonalities and redundancies (or, if fault-tolerance is desired, the lack of redundancies).

The SV-3 can be organized in a number of ways to emphasize the association of groups of system pairs in context with the architecture's purpose.

The intended usage of the SV-3 includes:

- Summarizing system resource interactions.
- Interface management.
- Comparing interoperability characteristics of solution options.

## Implementation

SV-3 can be represented using a SV-3 diagram which is an editable Dependency Matrix.

|                        | 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 | Track Interface | Transmitter | Voice Radio | Yacht |
|------------------------|-----------------|------------|-------------------|---------|------------------|------------------------|--------------|------------|----------|-------------|---------------|------------------|-----------------|-------------|-------------|-------|
| 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       |                 |            |                   |         |                  |                        |              |            |          |             |               |                  |                 |             |             |       |
| Track Interface        |                 |            |                   |         |                  |                        |              |            |          |             |               |                  |                 |             |             |       |
| Transmitter            |                 |            |                   |         |                  |                        |              |            |          |             |               |                  |                 |             |             |       |
| Voice Radio            |                 |            |                   |         |                  |                        |              |            |          |             |               |                  |                 |             | ✕           |       |
| Yacht                  |                 |            |                   |         |                  |                        |              |            |          | ✕           | ✕             |                  |                 |             |             |       |

The [SV-1](#) concentrates on system resources and their interactions, and these are summarized in a SV-3.

## Related elements

- [Resource Artifact](#)
- [Software](#)
- [Capability Configuration](#)
- [Organization](#)
- [Post](#)
- [Resource Exchange](#)
- [Data Element](#)
- [Natural Resource](#)
- [Geo Political Extent Type](#)

## Related procedures

- [Creating SV-3 matrix](#)
- [Creating Resource Exchange in SV-3 matrix](#)
- [Using Implied Relations](#)

