

# CV-7 Capability to Services Mapping

## Description

The CV-7 describes the mapping between the capabilities required and the services that enable those capabilities.

It is important to ensure that the services match the required capability. The CV-7 provides a bridge between capability analyzed using CVs and services analyzed using SvcVs. Specifically, it identifies how services can be performed using various available capability elements. It is similar in function to the SV-5a which maps system functions to operational activities. The capability to service mappings may include both situations where a service fully satisfies the desired capability and those where the service only partially meets the capability requirement.

The intended usage of the CV-7 includes:

- Tracing capability requirements to services.
- Capability audit.

## Implementation

CV-7 can be represented using a CV-7 diagram which is an editable Dependency Matrix. Service Interfaces are used as row elements and Capabilities are used as column elements.

|   | Assistance | Land SAR | Maritime SAR | Recovery | SAR | Search | UK SAR Capability | Inform | Military C2 | SAR C2 |
|---|------------|----------|--------------|----------|-----|--------|-------------------|--------|-------------|--------|
| SvcV-1  |            |          |              |          |     |        |                   |        |             |        |
| Ambulance Service                             |            |          |              |          |     |        |                   |        |             |        |
| Channel Navigation Information Service        |            |          |              |          |     |        |                   |        |             |        |
| Emergency Towing Cover Service                |            |          |              |          |     |        |                   |        |             |        |
| Fire and Rescue Service                       |            |          |              |          |     |        |                   |        |             |        |
| Land Search & Rescue Service                  |            |          |              |          |     |        |                   |        |             |        |
| Maritime Search & Rescue Service              |            |          |              |          |     |        |                   |        |             |        |
| Mountain Rescue Team Service                  |            |          |              |          |     |        |                   |        |             |        |
| Police Service                                |            |          |              |          |     |        |                   |        |             |        |
| Search & Rescue Service                       |            |          |              |          |     |        |                   |        |             |        |
| UK Radio Medical Advice Service               |            |          |              |          |     |        |                   |        |             |        |
| UK Radio Weather Forecast Information Service |            |          |              |          |     |        |                   |        |             |        |

This model is analogous to the SV-5a Operational Activity to System Function Traceability Matrix – but provides the interface between Capability and Service Models rather than Operational to System Models.

Related Pages:

- [Creating CV-7 matrix](#)
- [Service Access](#)
- [Capability Of Performer](#)
- [Activity Part Of Capability](#)
- [Capability](#)