

# SV-10c Systems Event-Trace Description

## Description

The SV-10c provides a time-ordered examination of the interactions between functional resources. Each event-trace diagram should have an accompanying description that defines the particular scenario or situation.

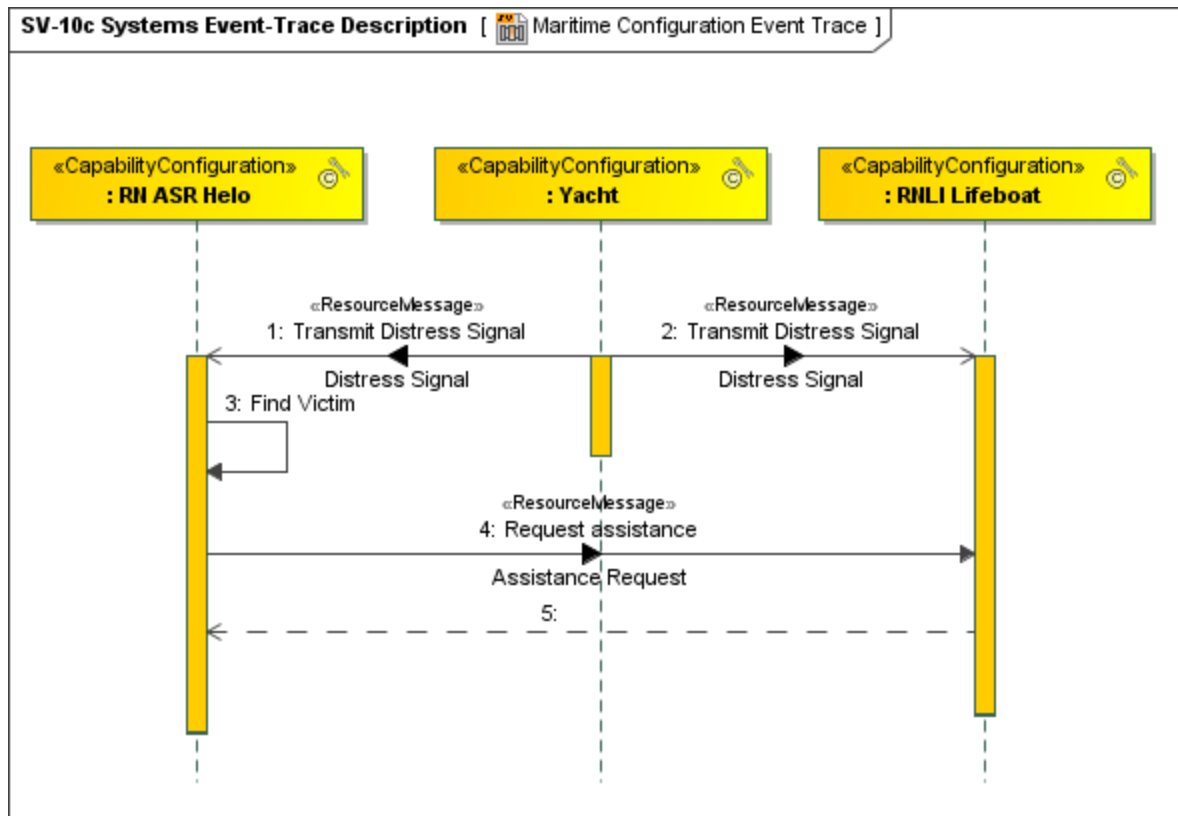
The SV-10c is valuable for moving to the next level of detail from the initial solution design, to help define a sequence of functions and system data interfaces, and to ensure that each participating resource or system port role has the necessary information it needs, at the right time, to perform its assigned functionality.

The intended usage of the SV-10c includes:

- Analysis of resource events impacting operation.
- Behavioral analysis.
- Identification of non-functional system requirements.

## Implementation

SV-10b can be represented using a UML State Machine diagram.



The SV-10c is typically used in conjunction with the [SV-10b Systems State Transition Description](#) to describe the dynamic behavior of resources. The data content of messages that connect resource flows in a SV-10c may be related with resource flows (the interactions in the [SV-1 Systems Interface Description](#) and [SV-3 Systems- Systems Matrix](#)), resource flows (the data in the [SV-4 Systems Functionality Description](#) and [SV-6 Systems Resource Flow Matrix](#)) and entities (in [DIV-3 Physical Data Model](#)) modeled in other models.

## Related elements

- [Resource Message](#)
- [Resource Exchange](#)

## Related procedures

- [Creating Resource Exchange in SV-10c diagram](#)