SvcV-10c Services Event-Trace Description

Description

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

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

The intended usage of the SvcV-10c includes:

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

Implementation

SvcV-10c can be represented using a UML Sequence diagram.
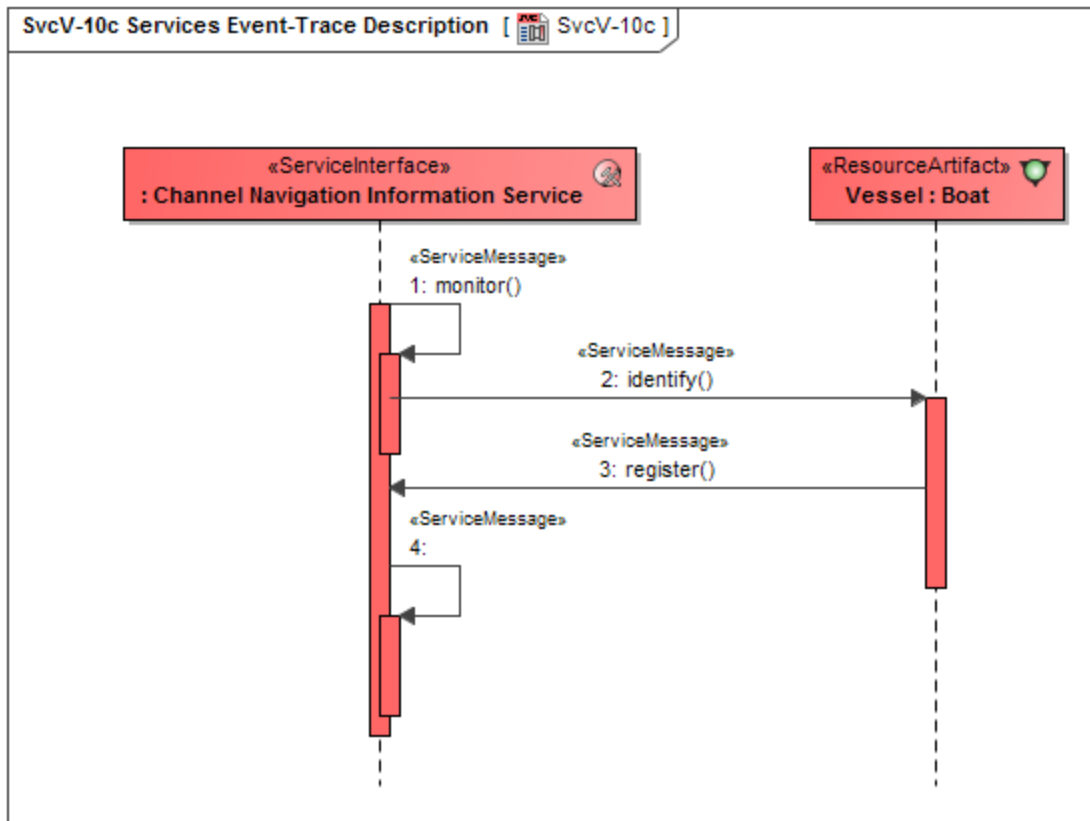
The SvcV-10c is typically used in conjunction with the SvcV-10b Services State Transition Description to describe the dynamic behavior of resources. The data content of messages that connect Resource Flows in a SvcV-10c model may be related, in modeling terms, with Resource Flows (interactions, in Svc V-1 Services Context Description, SvcV-3a Systems-Services Matrix, and SvcV-3b Services-Services Matrix), Resource Flows (data, in SvcV-4 Services Functionality Description) and information elements (in DIV-3 Physical Data Model) modeled in other models.

Related elements

- Interaction
- Service Specification
- Service Interface
- Service Message
- Service Method

Related procedures

- Creating Resource Exchange in SvcV-10c diagram