# **Services States**

# Description

The Services States (Sv-St) domain shows the behavior of a service specification in terms of states and events causing transitions between states. It specifies the possible states a service specification may have, and the possible transitions between those states.

The purpose of the Services States (Sv-St) domain is to specify the possible states a service may have, and the possible transitions between those states. It is generally considered good practice to make services stateless – i.e. consumers of a service are not aware of what state the service is in. However, in specifying a service, it is often necessary to specify the allowable states so as to constrain how implementations of the service will behave. As the states of a service may affect its ability to supply those services, it is important for consumers to understand those states. The Services States (Sv-St) domain is a specification of those states, and the possible transitions between them.

## Implementation

The Services States (Sv-St) domain is represented by a Services States diagram that is based on UML State Machine diagram.

#### Sample

Services States [ 🎬 Maritime Search and Rescue Service ]		
	Tasking Order	when (No victims)
Maritime <u>SAR</u>		
Victim Assistance	Retrieving Victim Recovered [Survi	Vor] Aiding when (Conscious) Calming when (Victim stabilized)
Victim Transportation	Victim Recovered [Fatality]	
Locate Victims Victim Discovered		

## An example of the Services States diagram

#### **Related elements**

- Service Specification
- Service State Description

# **Related procedures**

Allocate Activities to State Internal Behaviors