# **L7 Logical Data Model**

### Description

The L7 Logical Data Model view addresses the information perspective on an operational architecture. The L7 view is used to document the business information requirements and structural business process rules of the architecture. It describes the information that is associated with the information exchanges of the architecture. Included are information items, their attributes or characteristics, and their inter-relationships.

The L7 view may be used for:

- · Information architecture.
- Information product hierarchy.

#### Implementation

The L7 view can be represented using:

· L7 diagram which is based on the UML Class diagram. L7 Logical Data Model [ 🔚 L7 ] Exchange Bement» Track Info «Logical DataModel» 0 Search & Rescue «Exchange Bement» (i)
Track Info «Details» «Entity Item» -Locations Last Known Position Latitude : String [1 «Exchange Bement» j Longitude : String [1] Distress Signal Time : String [1] SourceOfReport : String [1] «Entity Item» «Exchange Bement» 🕦 Search Area -Location | \* **Control Order** -Waypoints : String [2.. -ActivationTime : String [1] -Duration : String [1] «Entity Item» «Exchange Bement» 👔 Search Object -DriftDirection : String [1] **Warning Order** -Name : String [1] -Registration : String [1] -Tonnage : String [1] -Color : String [1] -DriftSpeed : String [1] -CommenceSearchPoint : String [1] Markings : String [1] Superstructure : String [1] Characteristics : String [1] -OperationalArea OwnerOrOperator : String [1] PersonsOnBoard : String [1] EmergencyEquipmentCarried: String [1] -Objects 0..\* «Entity Item» SAR Operation «Exchange Bement» 🔒 ∝Deta 0..\* -AssetAssignments «Entity Item» CaseName : String [1] Request CaseNumber : String [1] Assignment 0..1 askAuthority: String [1 Description : String [1] «Details» «Exchange Bement» (j) «Exchange Bement» 🕦 Task **Control Order** 

- UML Class diagram.
- · SysML Block Definition diagram.

#### Related elements

- Data Model
- Association
- Information Element

## Related procedures

Creating L7 diagram