

UC6: “Logistics”

- *Context of use.* Provision of real-time information by the system to all stakeholders in the DG logistics chain (dispatcher, transporter, client, recipient, etc.) regarding vehicle position and status, expected arrival time, cargo level and condition, etc., in case of re-routing or incident/accident occurrence.
- *Primary actor.* The system.
- *Input (trigger).* Re-routing, detection of accident or other incident that influences the cargo (i.e. cargo explosion, etc.), the vehicle (i.e. vehicle malfunction, etc.) and the route (i.e. reach of destination, expected time of arrival, etc.).
- *Output.* Key info, depending on the incident (i.e. accident) or the event (i.e. re-routing) are transmitted to all interested parties.
- *Main success scenario(s).*
 - ⇒ **Step 1:** The system identifies incident/event that requires notification of the interested parties.
 - ⇒ **Step 2:** The system provides all relevant key info to the interested party *and notification to emergency teams (UC7)*.
 - ⇒ **Step 3:** The interested party sends receipt of notification.
- *Connected UCs and extensions.* A potential extension in this case would be the request on behalf of the third party (i.e. company) for re-routing plans in case an accident or an incident (i.e. vehicle malfunction) has happened (UC3/4). Moreover, this UC is also connected to the UC7, in the context of which, notification of the emergency teams is held in case of accident/incident. It definitely pre-supposes UC9.
- *Indicative scenarios of use.*
 - ⇒ “Malfunction of Vehicle X¹ is detected-Expected delay of Y minutes”.
 - ⇒ “Re-routing of Vehicle X for business reasons is held-Estimated time of delay: Y minutes”.
 - ⇒ “Cargo explosion detected at Vehicle Y- Reach of destination non feasible”.

¹ X refers to the ID of the vehicle and the load.