

# DigLogs

## DelPlan - Test Case Scenarios

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<b>Notes:</b>			

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## 1 Test cases

This document includes pilot application (DelPlan) testing data with the expected results for a particular test scenario, in order to verify compliance against a specific requirement, and in this case Functional specification. *Test cases* document serves as the starting point for test execution. Test scenarios include all aspects identified during project planning phase. This document consists of six test case scenarios, covering completely the implemented functionality.

### 1.1 Test case scenario 1: Interporto di Novara - Interporto di Abruzzo

**Description:** the user wants to transport goods from Novara to Abruzzo with the details below. The system calculates options and user selects Option1 (full rail) without rerouting.

**Starting point:** Interporto di Novara

**Arrival point:** Interporto d'Abruzzo

**Cargo type:** Gas

**Departure time:** Monday - Friday at 17:00h

**Dangerous goods:** Allowed

**ITU type:** Free choice entry

**ITU typology:** Free choice entry

**Dimensions:** Free choice entry

**Number of given options:** 12

**Selected option:** Option 1

**Rerouting:** No

**Expected results:** **Leg 1: Interporto di Novara - Interporto d'Abruzzo (rail)**

**Selection criteria:** lowest CO2 emission (0 GCO2) and lowest cost (380€)

## 1.2 Test case scenario 2: Port of Split - Port of Ancona

**Description:** the user wants to transport goods from Split to Ancona with the details below. The system calculates options and user selects Option2 with 2 road legs, without rerouting.

**Starting point:** Port of Split

**Arrival point:** Port of Ancona

**Cargo type:** Bulk

**Departure time:** Friday at 16:00h

**Dangerous goods:** Allowed

**ITU type:** Cranable semitrailer

**ITU typology:** CS-Pw/Ph

**Dimensions:** 1360cm

**Number of given options:** 11

**Selected option:** Option 2

**Rerouting:** No

**Expected results:** **Leg 1: Port of Split - Interporto di Bologna (road), Leg 2: Interporto di Bologna - Port of Ancona (road)**

**Selection criteria:** Two leg route, CO2 emission (81164 GCO2) and cost (1441€)

### 1.3 Test case scenario 3: Port of Ortona - Port of Šibenik

**Description:** the user wants to transport goods from Ortona to Šibenik with the details below. The system calculates options and user selects Option1 (sea) without rerouting.

**Starting point:** Port of Ortona

**Arrival point:** Port of Šibenik

**Cargo type:** Solid- palletized

**Departure time:** Tuesday at 16:00h

**Dangerous goods:** Allowed

**ITU type:** Swap body

**ITU typology:** CS

**Dimensions:** 45'

**Number of given options:** 12

**Selected option:** Option 1

**Rerouting:** No

**Expected results:** **Leg 1: Port of Ortona - Port of Šibenik (sea)**

**Selection criteria:** One leg route, lowest CO2 emission (0 GCO2) and lowest cost (420€)

#### 1.4 Test case scenario 4: Interporto Bologna - Scalo Merci Saletti

**Description:** the user wants to transport goods from Bologna to Saletti with the details below. The system calculates options and user selects Option2 with 2 legs (road+road), but needs to reroute on leg2, changing the last lag to rail to LaSpezia.

**Starting point:** Interporto Bologna

**Arrival point:** Scalo Merci Saletti

**Cargo type:** Bulk

**Departure time:** Monday, Tuesday and Thursday at 19:00h

**Dangerous goods:** Not allowed

**ITU type:** Container

**ITU typology:** Bulk

**Dimensions:** 40'

**Number of given options:** 12

**Selected option:** Option 2 (Interporto di Bologna -road- Port of Ortona -road- Scalo Merci Saletti)

**Selection criteria:** Transport by road, earliest ETA

**Rerouting:** Yes, on leg number 2

**New arrival point:** Port of La Spezia

**Number of given options:** 12

**New option:** Option 1

**Expected results:** Leg 1: Port of Ortona - Interporto Marche (road), Leg 2: Interporto Marche - Port of La Spezia (rail)

**Selection criteria:** lowest CO2 emission (16362 GCO2) and lowest cost (621€)

### 1.5 Test case scenario 5: Scalo Merci Saletti - Port of Split

**Description:** the user wants to transport goods from Saletti to Split with the details below. The system calculates options and user selects Option1, consisting of 3 legs (road-sea-road), without rerouting.

**Starting point:** Scalo Merci Saletti

**Arrival point:** Port of Split

**Cargo type:** Liquid

**Departure time:** Monday, Wednesday and Friday at 20:00h

**Dangerous goods:** Not allowed

**ITU type:** Container

**ITU typology:** Tank

**Dimensions:** 20'

**Number of given options:** 12

**Selected option:** Option 1

**Rerouting:** No

**Expected results:** Leg 1: Scalo Merci Saletti - Port of Ortona (road), Leg 2: Port of Ortona - Port of Šibenik (sea), Leg 3: Port of Šibenik - Port of Split (road)

**Selection criteria:** lowest CO2 emission (62465 GCO2) and lowest cost (1459€)

## 1.6 Test case scenario 6 (alert test case): Interporto d'Abruzzo - Port of Šibenik

**Description:** the user wants to transport goods from Abruzzo to Šibenik with the details below. The system calculates options and user selects Option2 (Interporto d'Abruzzo - Port of Ancona - Port of Split - Port of Šibenik) with 3 legs (road+sea+road), but needs to reroute, due to alert, the leg2 to Šibenik.

**Starting point:** Interporto d'Abruzzo

**Arrival point:** Port of Šibenik

**Cargo type:** Gas

**Departure time:** Monday - Saturday at 16:30h

**Dangerous goods:** Allowed

**ITU type:** Container

**ITU typology:** Tank

**Dimensions:** 40'

**Number of given options:** 12

**Selected option:** Option 2 (Interporto d'Abruzzo -road- Port of Ancona -sea- Port of Split -road- Port of Šibenik)

**Selection criteria:** lowest CO2 emission and lowest cost

**Alert type:** Weather conditions: Ferry Ancona - Split is canceled due to weather conditions

**Rerouting:** Yes, on leg number 2



**New arrival point:** Port of Šibenik

**Number of given options:** 12

**New option:** Option 1

**Expected results:** Leg 1: Port of Ancona - Port of Ortona (road), Leg 2: Port of Ortona - Port of Šibenik (sea)

**Selection criteria:** lowest CO2 emission and lowest cost

Demo video of the scenario number 6 is available at the URL: <https://diglogs.portline.eu/videos/>

\* Test case scenarios are also available in Excel version