Requirements – Transport Module

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| ID | Module | Functional / Non-Functional | Description | Priority | Risk | Status |
| 1 | TRP | functional | The system will keep the following information for each transport: unique ID, date, departure hour, truck license number, driver ID, source, destinations, uniquely identifiable list of items for each destination, truck weight | HP | LR | done |
| 2 | TRP | functional | The system will keep the following information for each site: transport zone, address, phone number, contact person name, site type | HP | LR | done |
| 3 | TRP | functional | The system will keep the following information for each truck: license number, model, base weight, maximum weight, cooling capacity | HP | LR | done |
| 4 | TRP | functional | The system will keep the following information for each driver: unique ID, name, driving license type | HP | LR | done |
| 5 | TRP | functional | The system will allow adding new transports, drivers, trucks, sites, item lists | HP | LR | done |
| 6 | TRP | functional | The system will allow editing transports, drivers, trucks, sites and item lists. | HP | LR | done |
| 7 | TRP | functional | The system will allow deleting transports, drivers, trucks, sites and item lists. | HP | LR | done |
| 8 | TRP | non-functional | The truck's cooling capacities are: 1:"none",2:"cold",3:"frozen" | HP | LR | done |
| 9 | TRP | non-functional | The site types are the following: Logistical center, branch, supplier | HP | LR | done |

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| ID | Module | Functional / Non-Functional | Description | Priority | Risk | Status |
| 10 | TRP | non-function | The types of driving licenses are defined as pairs of letter and number as such: 1-3 for cooling capacity and A-C for max weight.  A : 0 - 10,000kg  B : 0 - 20,000kg  C : no limit  1 : no cooling  2 : cold  3 : frozen  for example: C1, B3, B1 etc | HP | LR | done |
| 11 | TRP | non-function | The driver's license adequacy is ordered as such:  A1<B1<C1<C2<C3  A2<B2<C2<C3  A3<B3<C3  which means that drivers can drive trucks that require a weaker license | HP | LR | done |
| 12 | TRP | functional | The system will reject the transport if the weight is higher than the maximum weight of the truck. | HP | LR | done |
| 13 | TRP | functional | The system will reject the transport if the driver's license is not adequate for the truck | HP | LR | done |
| 14 | TRP | functional | If a transport is rejected, the system will allow choosing between: changing or removing a destination, changing the truck, or changing the item list | HP | HR | done |
| 15 | TRP | functional | The system will enforce that the driver of the transport has the adequate license type for the truck according to the cooling capacity and the weight of the truck | HP | HR | done |
| 16 | TRP | functional | The system will not allow a truck to be assigned to two overlapping transports | LP | HR | backlog |
| 17 | TRP | functional | The system will not allow a driver to be assigned to two overlapping transports | LP | HR | backlog |

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| ID | Module | Functional / Non-Functional | Description | Priority | Risk | Status |
| 18 | TRP | functional | The system will document every transport in the transport history database | HP | HR | backlog |
| 19 | TRP | functional | The system will document the list of items in the item history database | HP | HR | backlog |

**System assumptions** (things we don't know but we assumed)**:**

1. As of now, we're assuming every driver and every truck is always available for a transport, regardless of whether they actually are. We are not enforcing this requirement because it's not in this module's jurisdiction to verify these details.
2. We're assuming 9 types of drivers' licenses exist, based on the max weight of the truck and the cooling capacity of the truck.

A: 0-10 Tons, B: 0-20 Tons, C: no limit

1: no cooling, 2: cold, 3: frozen

every combination of these letters and numbers are a type of license number.

for example: A1, B2, C3 etc.

1. When the transport weight exceeds the max weight of the truck, we're allowing to change both the truck and the driver if necessary to accommodate the heavier truck.

**Open questions:**

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| Questions |  |
| 1 | How do you know when a driver is available to be put in a transport? |
| 2 | How do you know when a truck is available to be put in a transport? |
| 3 | There is no information about when a transports ends, which means we can't know the answers to questions 1 and 2. How do we get this information? |