

# VEHICLE DESCRIPTION

in a

SUTI-link



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## **1 GENERAL**

One of the most basic functions that must be standardized to get a SUTI-link to work, are how we describe the resources used for the transportation. If the Client doesn't work with the same description of a vehicle that the Provider use, it's impossible to send an order from the Client to the Provider with any possibility to provide a resource that is needed for the order. This document contains a way to describe resources needed to provide a transportation service.

Two major resources are used in order to provide a transportation service, a Vehicle and a Driver. This is the resources described in this document.

### **1.1 VEHICLE GENERAL**

A vehicle has two sets of descriptions, Capacity and Attributes. Capacity describes the size of the vehicle, the number of passengers in the vehicle and attributes specifying a seat. Attributes specify functions and properties of the vehicle.

#### **1.1.1 VEHICLE CAPACITY GENERAL**

Many vehicles have the possibility to let the driver change the internal configuration very easily. This poses a problem if we shall be able to handle an order that demands a configuration that a vehicle can't carry out in the normal configuration, but with very little effort, the driver can change the configuration of the vehicle to fit the demands in the order. We have a need for a description of the alternative configuration. This need for an alternative description gets even more important if we deal with orders involving travelers in wheelchairs or in stretchers.

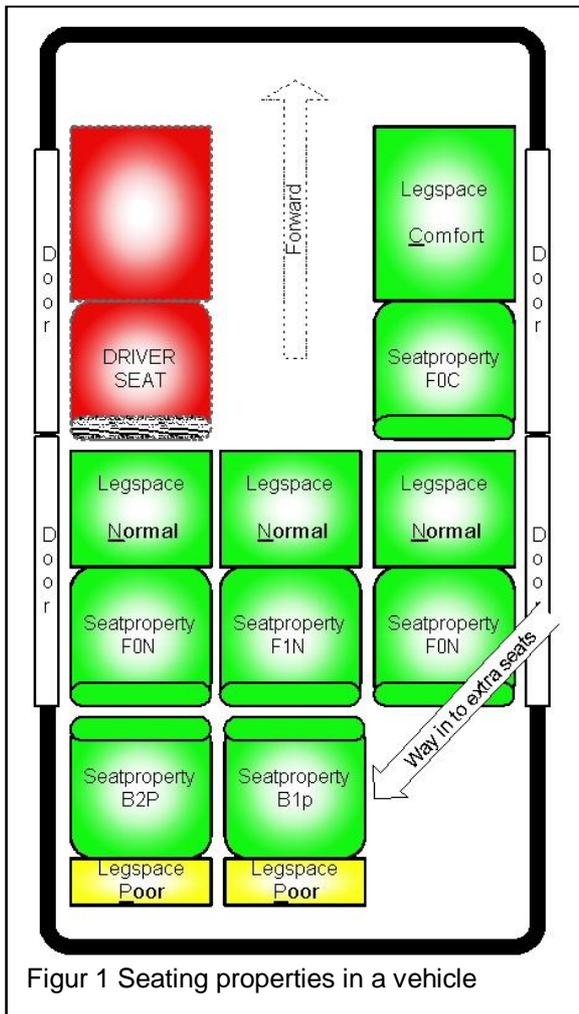
Many of these vehicles have many combinations of seating and luggage space or seating and wheelchair space. A description of a vehicle that handles all the combinations of seat and space will be very extensive and too difficult to handle for both Client and Provider systems. To solve this problem we will deal with the possibility to have three descriptions of a vehicle: Normal, Alternative and Stretcher description. Normal will be the configuration a vehicle normally has. Alternative will be the configuration if all possibilities are used. Stretcher configuration will be the configuration that can handle a stretcher.

### **1.2 DRIVER GENERAL**

A driver has only one set of descriptions: Attributes. Attributes of the driver specify skills and other properties of the driver.

## 2 SEATING PROPERTIES in VEHICLE

Three properties are used: Direction, Access and Legspace. A property for a seat can be F0C. The first character is the Direction "F", the second character is Access "0" and the third character is Legspace "C".



Figur 1 Seating properties in a vehicle

### 2.1 DIRECTION

Indicates if the traveler will be facing Forward ("F") or Backward ("B") while seated in this seat.

### 2.2 ACCESS

Indicates how many sets the traveler has to pass over in order to reach his/her seat. This is indicated by a number from zero and up.

If it is a seat placed at a door in figure 1 the access property will be "0". If it's the middle seat in the back in figure 1 the access property will be "1". The left extra seat in figure 1 has the access property "2" as the traveler have to pass over both the right back seat and the right extra seat.

### 2.3 LEGSPACE

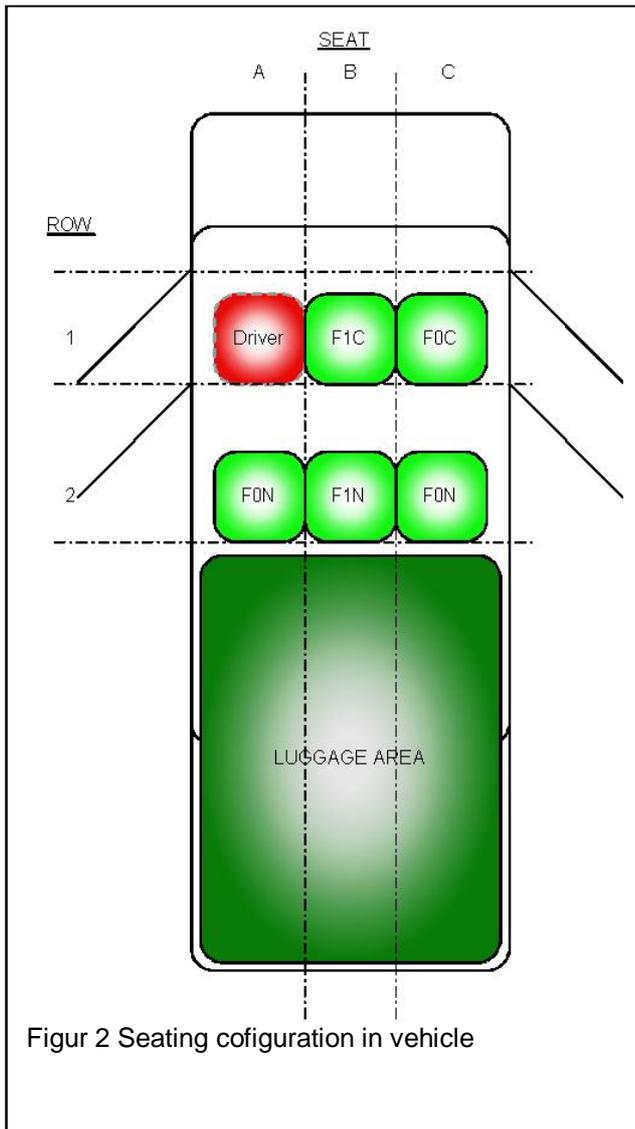
Indicates the Legspace for the traveler while seated.

Comfort ("C") = Good space, may be the seat beside the driver.  
 Normal ("N") = Normal space, may be the seat behind the driver in a normal car.  
 Poor ("P") = Very little legspace, may be an extra seat placed behind the normal back seat.

### 3 SEATING POSITION in VEHICLE

In certain orders the Client has a need to specify a certain seat in a vehicle. If the traveler has the need to sit in one of the front seat, the Client system must specify this to the Provider system in the order.

In order to facilitate this we have adopted a system derived from airline booking. The position of the seat is specified by a row and a place in that row. In order to specify a certain seat the Client system tells the Provider system in the order that a certain traveler shall be seated in a certain seat. This is done under the node section of the order message in which the pickup point of this traveler is specified. Here the client specify seat 1B, which mean that the traveler shall be seated next to the driver in the front seat.



Figur 2 Seating cofiguration in vehicle

#### 3.1 ROW

Row number is counted from the front toward the back of the vehicle. The first row is numbered 1, the second 2 and so on through the vehicle. This makes it possible to describe vehicles reaching from taxis through buses up to airplanes.

In row number 1 the seat reserved for the driver are not specified, to avoid booking this seat for passenger.

#### 3.2 PLACE IN A ROW

Place are counted from left to right facing in a forward direction of the vehicle. Numbers are A,B,C and so on.

Place 1C in figure 2 will have the property F0C.

#### **4 ATTRIBUTES on VEHICLE**

Attributes on a vehicle specify functions and properties of the vehicle. A vehicle can have certain equipment required for special assignments or may be sanitized for travelers with allergies.

These attributes are managed by SUTI and kept in a public list for members to use.

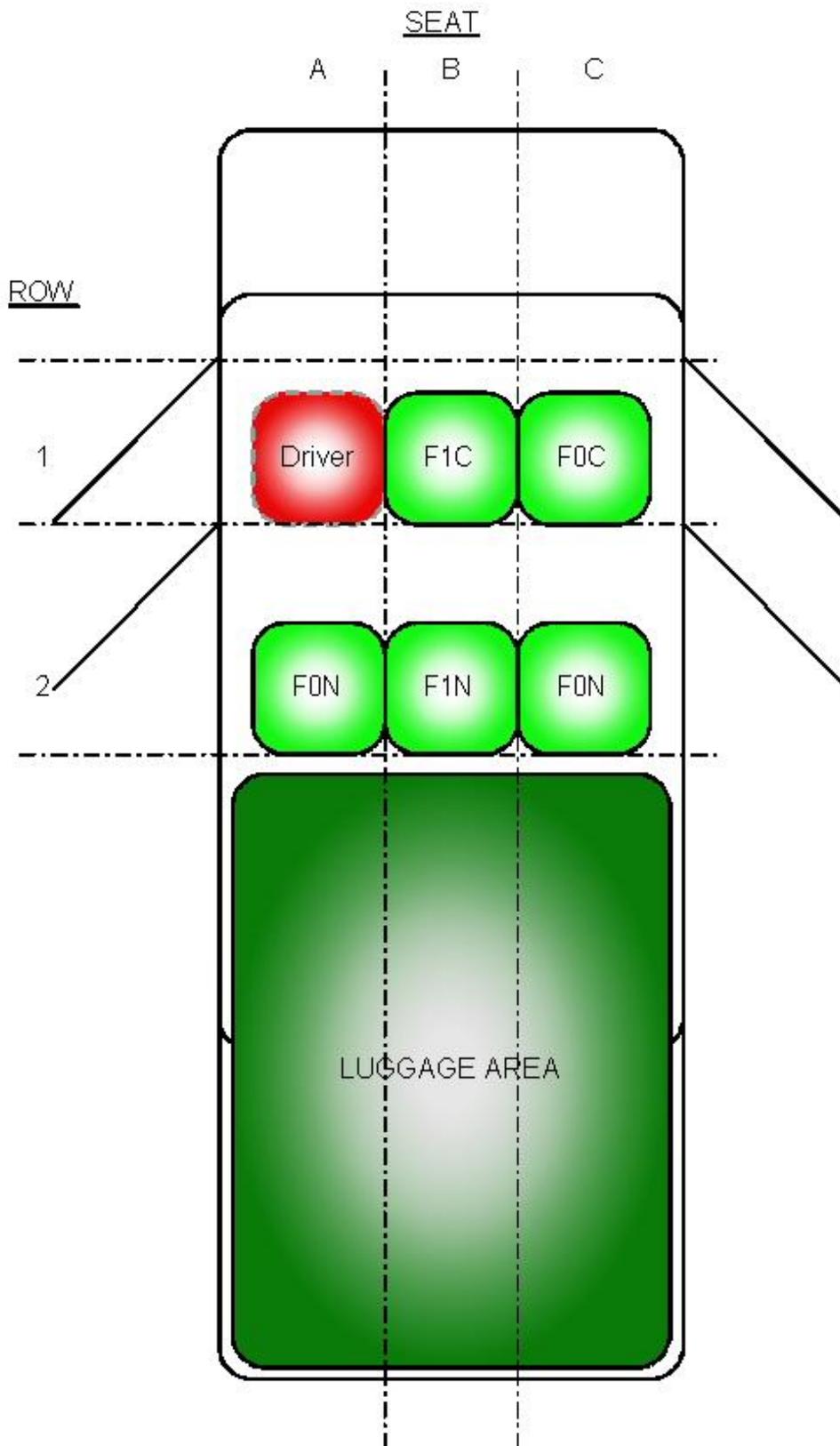
## **5 ATTRIBUTES on DRIVER**

Attributes on a driver can be special skills or education that the driver possesses. He may talk a certain language, he may have knowledge about first aid or CPR. Another attribute on a driver is if he/she has special security clearances for certain places such as airports, harbors or other restricted areas.

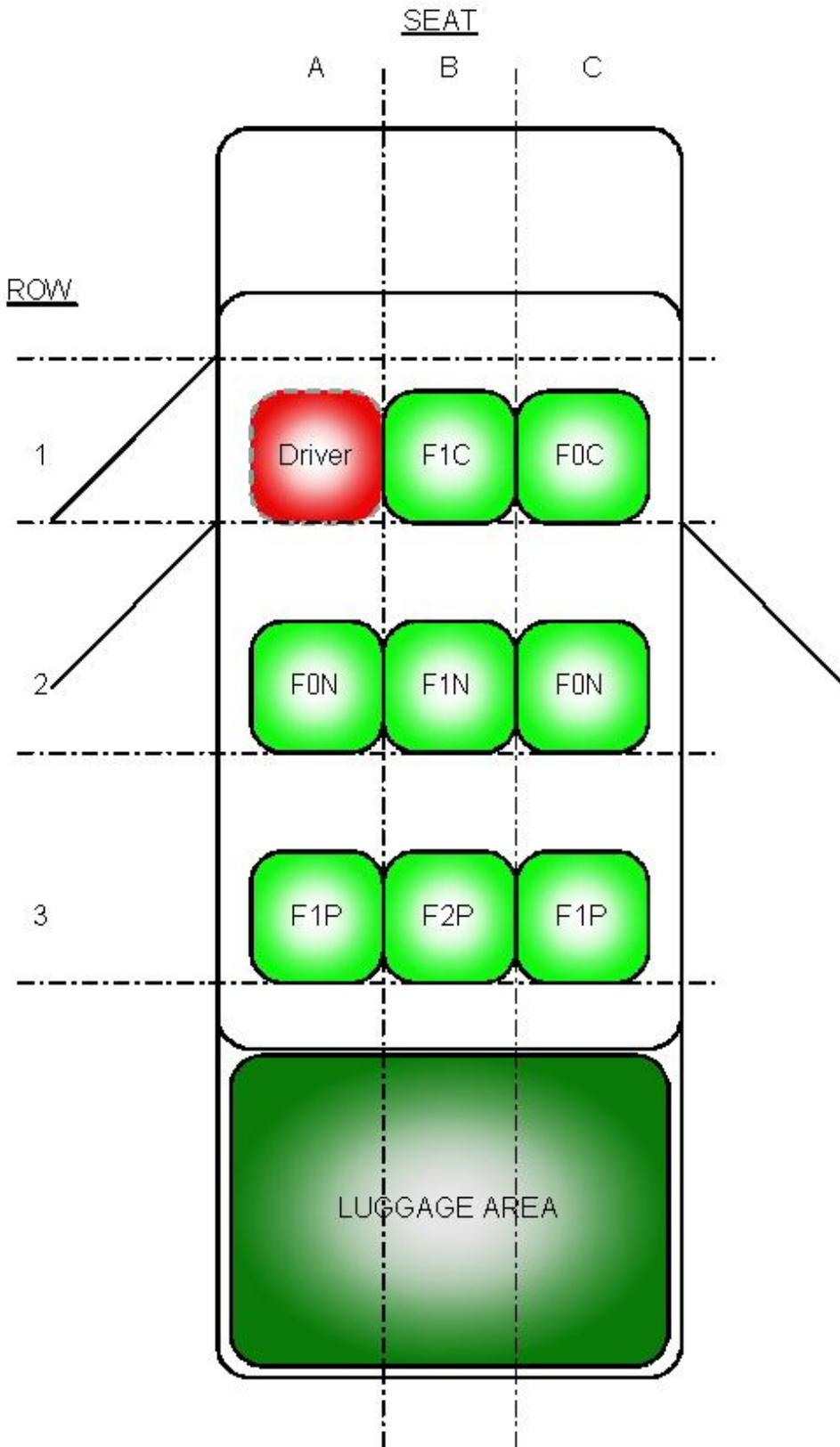
These attributes are managed by SUTI and kept in a public list for members to use.

## 6 EXAMPLE of CONFIGURATION

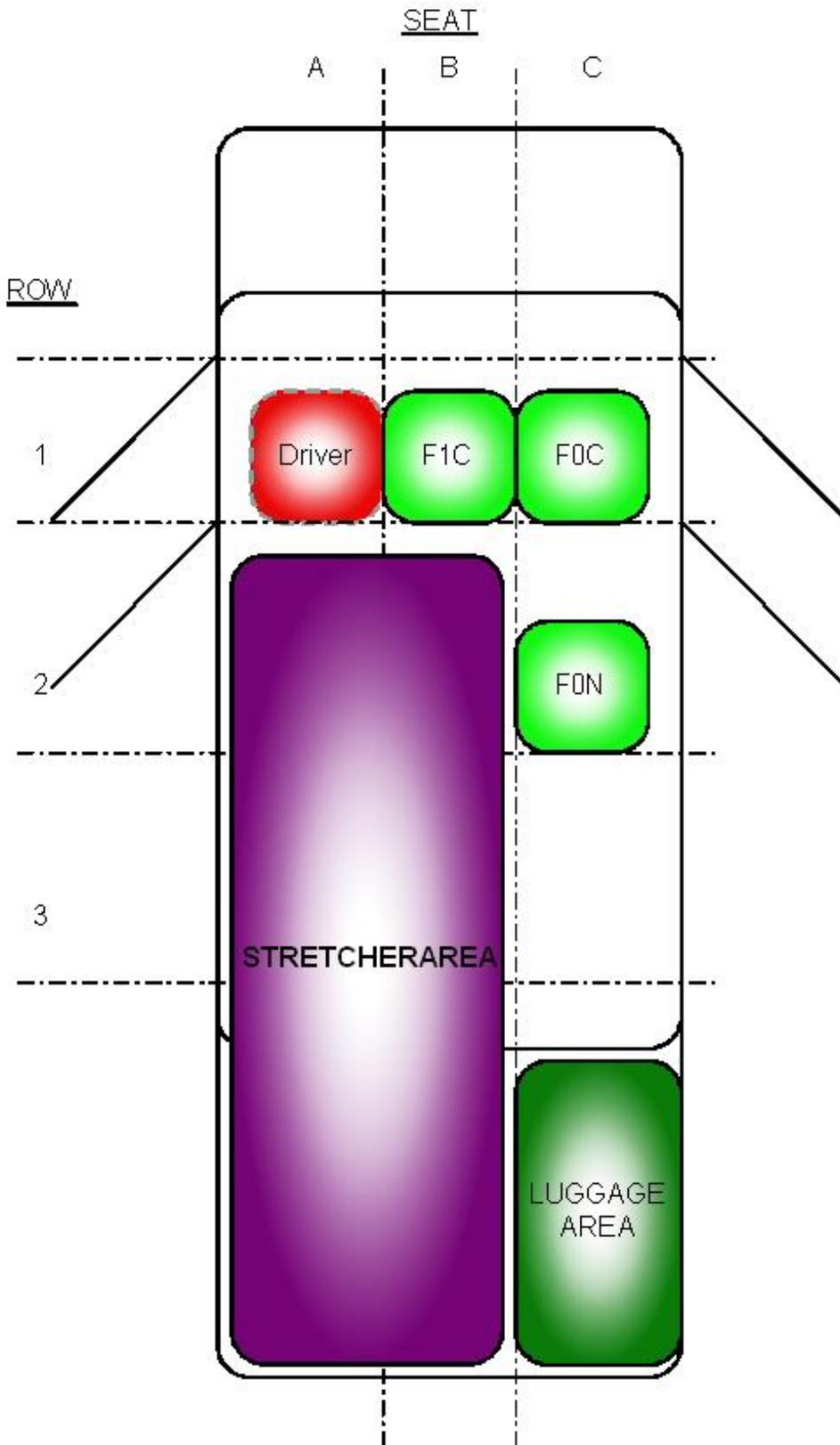
### 6.1 NORMAL CONFIGURATION



## 6.2 ALTERNATIVE CONFIGURATION



### 6.3 SPECIAL CONFIGURATION STRETCHER



### 6.4 SPECIAL CONFIGURATION WHEELCHAIR

